DAVID W. TAYLOR NAVAL SHIP
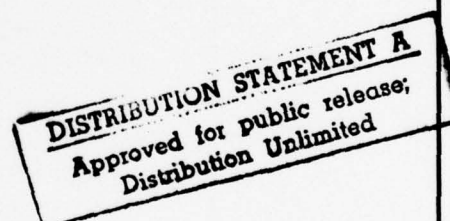# RESEARCH AND DEVELOPMENT CENTER

Bethesda, Md.   20084

COMPUTER CENTER LIBRARIES/PROFIL (PROCEDURES)

by

David V. Sommer
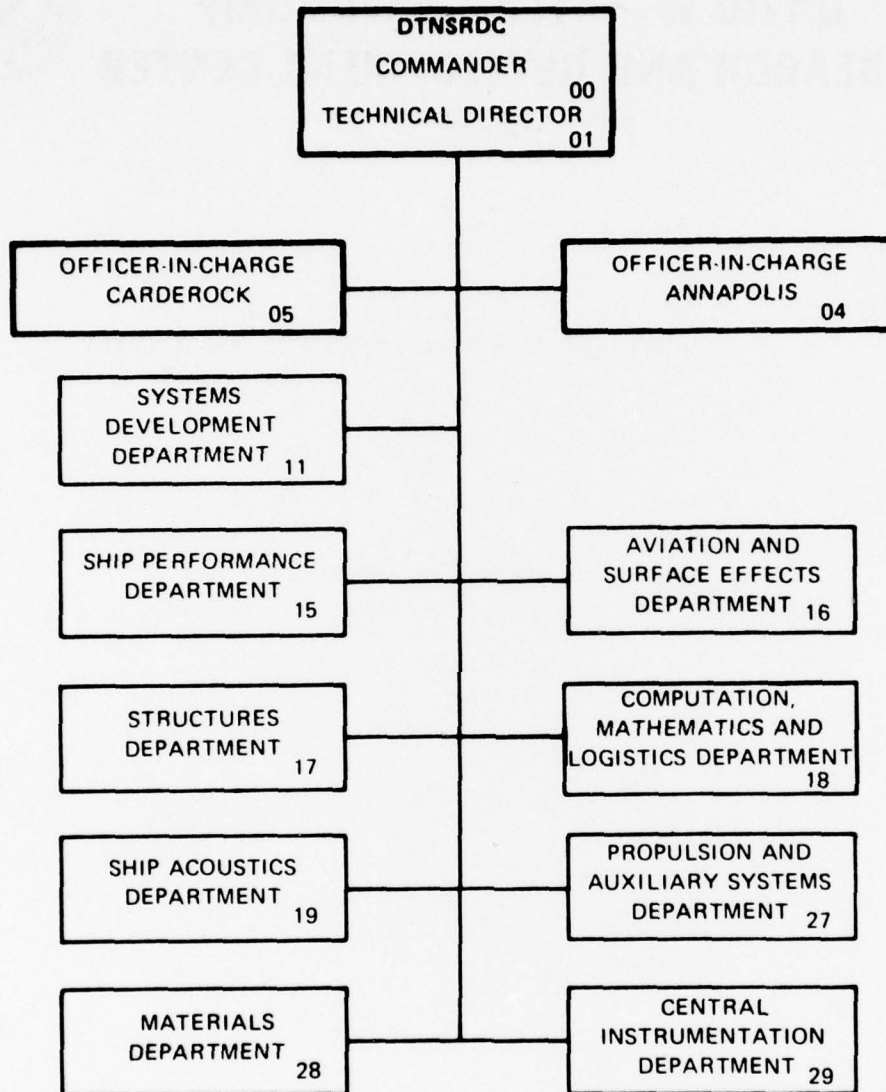
Computation, Mathematics and

Logistics Department

September 1977   CMLD-77-16

MAJOR DTNSRDC ORGANIZATIONAL COMPONENTS

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                    ┌─────────────────────┐
                    │      DTNSRDC         │
                    │  COMMANDER           │
                    │                   00 │
                    │  TECHNICAL DIRECTOR  │
                    │                   01 │
                    └─────────────────────┘
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OFFICER-IN-CHARGE CARDEROCK 05	OFFICER-IN-CHARGE ANNAPOLIS 04
SYSTEMS DEVELOPMENT DEPARTMENT 11	
SHIP PERFORMANCE DEPARTMENT 15	AVIATION AND SURFACE EFFECTS DEPARTMENT 16
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MATERIALS DEPARTMENT 28	CENTRAL INSTRUMENTATION DEPARTMENT 29

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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Catalogued Procedures   Software Documentation
Computers
Functional Categories
Library File
Control Cards

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Computer Center Libraries/Profil (Procedures), CCLIB/P, is a reference manual which describes all of the catalogued procedures (sets of control cards to accomplish a task) in library 'PROFIL'. These procedures include document/source program/procedure file maintenance, program compilation/ loading/execution, permanent file audit/rename, special copy functions. CCLIB/P lists the procedures by functional category and alphabetically with a descriptive title. All machine-readable documents detailing the use of these procedures are included.

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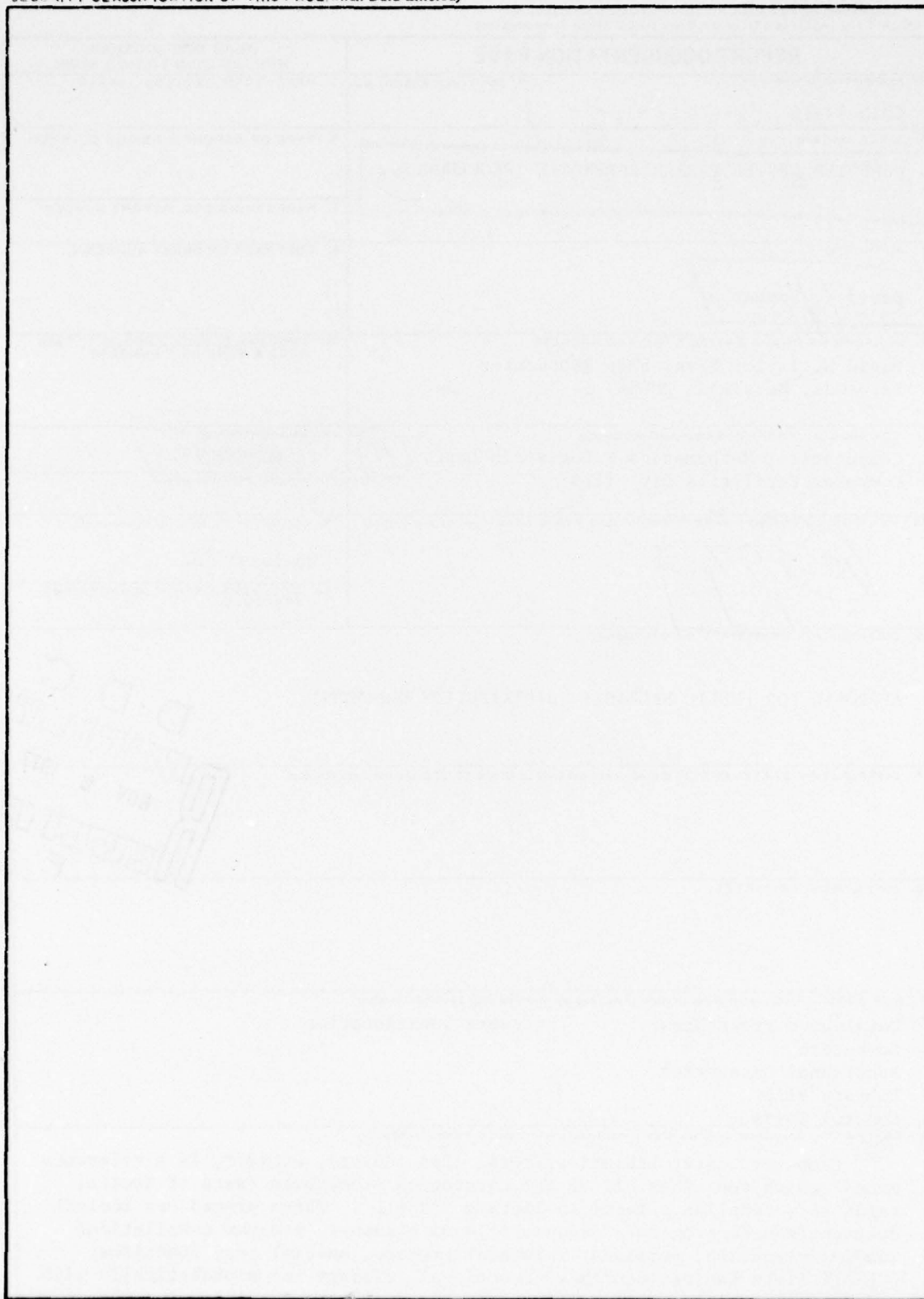S/N 0102-014-6601

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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DAVID W. TAYLOR
NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER
BETHESDA, MARYLAND   20084

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*                                             *
*                                             *
*      COMPUTER CENTER LIBRARIES / PROFIL      *
*              (PROCEDURES)                    *
*                                             *
*                                             *
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BY
DAVID V SOMMER

USER SERVICES BRANCH
CODE 1892

COMPUTATION, MATHEMATICS AND LOGISTICS DEPARTMENT
DEPARTMENTAL REPORT

AUG 1977   CMLD-77-16

..   THROUGH REVISION 0 (AUG 1977)   ..

TABLE OF CONTENTS

***** INTRODUCTION *****

THE COMPUTER CENTER MAKES AVAILABLE, IN ADDITION TO THE NOS/BE OPERATING SYSTEM, A WIDE VARIETY OF BOTH SCIENTIFIC AND UTILITY PROGRAMS, SUBPROGRAMS AND CATALOGUED PROCEDURES. MOST OF THE ROUTINES ARE MAINTAINED IN LIBRARIES ON PERMANENT FILES AND MAY BE INVOKED BY THE APPROPRIATE (LOADER) CONTROL CARDS. A FEW PROGRAMS ARE AVAILABLE AS INDEPENDENT PERMANENT FILES.

THE CCLIB-SERIES OF MANUALS CONTAINS THE FOLLOWING, WHICH DESCRIBE THE CONTENTS OF THE VARIOUS LIBRARIES MAINTAINED BY THE COMPUTER CENTER:

```
CCLIB   - COMPUTER CENTER LIBRARIES                    CMLD-77-12
CCLIB/N - COMPUTER CENTER LIBRARIES/NSRDC (SUBPROGRAMS) CMLD-77-15
CCLIB/P - COMPUTER CENTER LIBRARIES/PROFIL (PROCEDURES) CMLD-77-16
CCLIB/U - COMPUTER CENTER LIBRARIES/UTILITY (PROGRAMS)  CMLD-77-17
CCLIB/M - COMPUTER CENTER LIBRARIES/MNSRDC (PROGRAMS)
```

THIS MANUAL, CCLIB/P, IS A REFERENCE MANUAL WHICH DESCRIBES ALL THE CATALOGUED PROCEDURES IN LIBRARY 'PROFIL'.

*** HOW TO USE THIS MANUAL ***

THE PROCEDURES ARE CLASSIFIED IN ONE OR MORE FUNCTIONAL CATEGORIES (SEE PAGE 1-2 FOR A LIST OF CATEGORIES). THEY ARE LISTED, BEGINNING ON PAGE 1-5, UNDER THE VARIOUS CATEGORIES. THE INDIVIDUAL PROCEDURES ARE LISTED, WITH DESCRIPTIVE TITLE, BEGINNING ON PAGE 1-7. CHAPTER 2 CONTAINS ALL CURRENTLY AVAILABLE MACHINE-READABLE DOCUMENTS DESCRIBING THE USE OF PROCEDURES IN LIBRARY 'PROFIL'.

*** LIBRARY PROFIL ***

A CATALOGUED PROCEDURE IS A SET OF CONTROL CARDS WHICH ACCOMPLISH A TASK. LIBRARY 'PROFIL' CONTAINS MANY DTNSRDC WRITTEN AND/OR SUPPORTED PROCEDURES.

*** EXECUTING A PROCECURE ***

MOST OF THE PROCEDURES MAY BE EXECUTED BY:

    BEGIN,<PROCNAME>,,<PARAMETERS>.

THE INDIVIDUAL DOCUMENTS DESCRIBE THE <PARAMETERS>, IF ANY, AND THE METHOD OF EXECUTION.

***   FUNCTIONAL CATEGORIES   ***

THE FOLLOWING FUNCTIONAL CATEGORIES ARE USED AT DTNSRDC. THOSE
CATEGORIES PRECEDED BY AN ASTERISK (*) ARE LOCAL DTNSRDC CATEGORIES.
THE OTHER ARE FROM THE VIM (CDC USERS GROUP) LIST.

```
   A0   ARITHMETIC ROUTINES
   A1   REAL NUMBERS
   A2   COMPLEX NUMBERS
   A3   DECIMAL
   A4   I/O ROUTINES

   B0   ELEMENTARY FUNCTIONS
   B1   TRIGONOMETRIC
   B2   HYPERBOLIC
   B3   EXPONENTIAL AND LOGARITHMIC
   B4   ROOTS AND POWERS

   C0   POLYNOMIALS AND SPECIAL FUNCTIONS
   C1   EVALUATION OF POLYNOMIALS
   C2   ROOTS OF POLYNOMIALS
   C3   EVALUATION OF SPECIAL FUNCTIONS (NON-STATISTICAL)
   C4   SIMULTANEOUS NON-LINEAR ALGEBRAIC EQUATIONS
   C5   SIMULTANEOUS TRANSCENDENTAL EQUATIONS
 * C6   ROOTS OF FUNCTIONS

   D0   OPERATIONS ON FUNCTIONS AND SOLUTIONS OF DIFFERENTIAL EQUATIONS
   D1   NUMERICAL INTEGRATION
   D2   NUMERICAL SOLUTIONS OF ORDINARY DIFFERENTIAL EQUATIONS
   D3   NUMERICAL SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS
   D4   NUMERICAL DIFFERENTIATION

   E0   INTERPOLATION AND APPROXIMATIONS
   E1   TABLE LOOK-UP AND INTERPOLATION
   E2   CURVE FITTING
   E3   SMOOTHING
   E4   MINIMIZING OR MAXIMIZING A FUNCTION

   F0   OPERATIONS ON MATRICES, VECTORS & SIMULTANEOUS LINEAR EQUATIONS
   F1   VECTOR AND MATRIX OPERATIONS
   F2   EIGENVALUES AND EIGENVECTORS
   F3   DETERMINANTS
   F4   SIMULTANEOUS LINEAR EQUATIONS

   G0   STATISTICAL ANALYSIS AND PROBABILITY
   G1   DATA REDUCTION (COMMON STATISTICAL PARAMETERS)
   G2   CORRELATION AND REGRESSION ANALYSIS
   G3   SEQUENTIAL ANALYSIS
   G4   ANALYSIS OF VARIANCE
   G5   TIME SERIES
   G6   SPECIAL FUNCTIONS (INCLUDES RANDOM NUMBERS AND PDF'S)
 * G7   MULTIVARIATE ANALYSIS AND SCALE STATISTICS
 * G8   NON-PARAMETRIC METHODS AND STATISTICAL TESTS
 * G9   STATISTICAL INFERENCE
```

H0 OPERATIONS RESEARCH TECHNIQUES, SIMULATION & MANAGEMENT SCIENCE
H1 LINEAR PROGRAMMING
H2 NON-LINEAR PROGRAMMING
H3 TRANSPORTATION AND NETWORK CODES
H4 SIMULATION MODELING
H5 SIMULATION MODELS
H6 CRITICAL PATH PROGRAMS
H8 AUXILIARY PROGRAMS
H9 COMBINED

I0 INPUT
I1 BINARY
I2 OCTAL
I3 DECIMAL
I4 BCD (HOLLERITH)
I9 COMPOSITE

J0 OUTPUT
J1 BINARY
J2 OCTAL
J3 DECIMAL
J4 BCD (HOLLERITH)
J5 PLOTTING
J7 ANALOG
J9 COMPOSITE

K0 INTERNAL INFORMATION TRANSFER
K1 EXTERNAL-TO-EXTERNAL
K2 INTERNAL-TO-INTERNAL (RELOCATION)
K3 DISK
K4 TAPE
K5 DIRECT DATA DEVICES

L0 EXECUTIVE ROUTINES
L1 ASSEMBLY
L2 COMPILING
L3 MONITORING
L4 PREPROCESSING
L5 DISASSEMBLY AND DERELATIVIZING
L6 RELATIVIZING
L7 COMPUTER LANGUAGE TRANSLATORS

M0 DATA HANDLING
M1 SORTING
M2 CONVERSION AND/OR SCALING
M3 MERGING
M4 CHARACTER MANIPULATION
M5 SEARCHING, SEEKING, LOCATING
M6 REPORT GENERATORS
M9 COMPOSITE

N0 DEBUGGING
N1 TRACING AND TRAPPING
N2 DUMPING
N3 MEMORY VERIFICATION AND SEARCHING
N4 BREAKPOINT PRINTING

00   SIMULATION OF COMPUTERS AND DATA PROCESSORS (INTERPRETERS)
01   OFF-LINE EQUIPMENT (LISTERS, REPRODUCERS, ETC.)
03   COMPUTERS
04   PSEUDO-COMPUTERS
05   SOFTWARE SIMULATION OF PERIPHERALS
09   COMPOSITE

P0   DIAGNOSTICS (HARDWARE MALFUNCTION)

Q0   SERVICE OR HOUSEKEEPING, PROGRAMMING AIDS
Q1   CLEAR/RESET
Q2   CHECKSUM ACCUMULATION AND CORRECTION
Q3   REWIND, TAPE MARK, LOAD CARDS, LOAD TAPE PROGRAMS, ETC.
Q4   INTERNAL HOUSEKEEPING, SAVE, RESTORE, ETC.
Q5   REPORT GENERATOR SUBROUTINES
Q6   PROGRAM DOCUMENTATION: FLOW CHARTS, DOCUMENT, STANDARDIZATION
Q7   PROGRAM LIBRARY UTILITIES

R0   LOGIC AND SYMBOLIC
R1   FORMAL LOGIC
R2   SYMBOL MANIPULATION
R3   LIST AND STRING PROCESSING

S0   INFORMATION RETRIEVAL

T0   APPLICATIONS AND APPLICATION-ORIENTED PROGRAMS
T1   PHYSICS (INCLUDING NUCLEAR)
T2   CHEMISTRY
T3   OTHER PHYSICAL SCIENCES (GEOLOGY, ASTRONOMY, ETC.)
T4   ENGINEERING
T5   BUSINESS DATA PROCESSING
T6   MANUFACTURING (NON-DATA) PROCESSING AND PROCESS CONTROL
T7   MATHEMATICS AND APPLIED MATHEMATICS
T8   SOCIAL AND BEHAVIORAL SCIENCES AND PSYCHOLOGY
T9   BIOLOGICAL SCIENCES
T10 REGIONAL SCIENCES (GEOGRAPHY, URBAN PLANNING)
T11 COMPUTER ASSISTED INSTRUCTION

U0   LINGUISTICS AND LANGUAGES

V0   GENERAL PURPOSE UTILITY SUBROUTINES
V1   RANDOM NUMBER GENERATORS
V2   COMBINATORIAL GENERATORS: PERMUTATIONS, COMBINATIONS & SUBSETS
* V3   STANDARD AND SPECIAL PROBLEMS

X0   DATA REDUCTION
X1   RE-FORMATTING, DECOMMUTATION, ERROR DIAGNOSIS
X2   EDITING
X3   CALIBRATION
X4   EVALUATION
X5   ANALYSIS (TIME-SERIES ANALYSIS)
X6   SIMULATION (GENERATE TEST DATA FOR DATA REDUCTION SYSTEM)

Y0   INSTALLATION MODIFICATION
Y1   INSTALLATION MODIFICATION LIBRARY
Y2   NEWPL TAPE OF INSTALLATION MODIFICATIONS

Z0   ALL OTHERS

***   LIST OF PROCEDURES BY CATEGORY   ***

THE PUBLIC-ACCESS PROCEDURES ARE LISTED BELOW UNDER THEIR
FUNCTIONAL CATEGORIES. AN ALPHABETICAL LIST, WITH A BRIEF DESCRIPTION
OF EACH PROCEDURE BEGINS ON PAGE 1-7.

J1   BINARY
        CV29

J4   BCO (HOLLERITH)
        LINE6   LINE8   PM

J5   PLOTTING
        CALC3D

K1   EXTERNAL-TO-EXTERNAL
        COPYS   RECADD   RECDELE   RECGET   RECREPL

K3   DISK
        COPYLIB   SELDUMP   UPDADD   UPDGET   UPDGETT
        CPINDEX   TRANPAK   UPDDELE   UPDGETS   UPDREPL

K4   TAPE
        COPYBLK   SELLOAD

L2   COMPILING
        RUNBAS   RUNFTN   RUNMNF   RUNSEQ   RUNTS

M1   SORTING
        AUDIT

M2   CONVERSION AND/OR SCALING
        CV29

O1   OFF-LINE EQUIPMENT
        CCIRM   CCRM   DOCDOC   RECDOC   UPDDOC
        CCLIB   CV29   PRODOC   TIDBITS

Q0   SERVICE OR HOUSEKEEPING, PROGRAMMING AIDS
        BDT   MFX   NORERUN   SEND   WHATLIB

Q3   FILE MANIPULATION
        S2K260   S2000

Q4   INTERNAL HOUSEKEEPING, SAVE, RESTORE, ETC.
        RENAMAC   SELDUMP   SELLOAD

Q6   PROGRAM DOCUMENTATION: FLOW CHARTS, DOCUMENT, STANDARDIZATION
        DOCADD   DOCFILE   DOCLIST   DOCTAPE   STRUCT
        DOCDELE   DOCGET   DOCREPL   PGMTAPE

Q7   PROGRAM LIBRARY UTILITIES
          ANYLIB   LIBSET2   PROALL   PROLIST   UPDGET   UTILITY
          ANYPRO   MNSRDC   PRODELE   PRONAM   UPDGETS
          COPYLIB   MYPRO   PROGET   PROREPL   UPDGETT
          CPINDEX   NOGO   PROGRAM   UPDADD   UPDLIST
          LIBSET1   PROADD   PROHDR   UPDDELE   UPDREPL

S0   INFORMATION RETRIEVAL
          AUDIT   GRIPE   VENUS

***   DESCRIPTIVE TITLES   ***

THE PUBLIC-ACCESS PROCEDURES ARE LISTED ALPHABETICALLY BELOW.

ANYLIB   EXECUTE A PROGRAM ON ANY EDITLIB USER LIBRARY (HAVING A PFN
          OF 1-7 CHARACTERS)

ANYPRO   EXECUTE A PROCEDURE ON ANY CATALOGUED PROCEDURE FILE (HAVING
          A PFN OF 1-7 CHARACTERS)

AUDIT   SORTED USER AUDIT

CALC3D   THREE-D PROCEDURE FOR CALCOMP 763, 936, 1700 PLOTTERS

CCIRM   PRINT ONE COPY OF COMPUTER CENTER INTRODUCTORY REFERENCE
          MANUAL

CCLIB   PRINT ONE COPY OF CCLIB, CCLIB/M, CCLIB/N, CCLIB/P, OR
          CCLIB/U MANUAL

CCRM   PRINT COPIES OF THE COMPUTER CENTER REFERENCE MANUAL

COPYBLK   REBLOCK STRANGER TAPES TO SCOPE STANDARD FILES (BOTH
          UNBLOCKED CARD AND PRINT LINE IMAGE TAPES AND BLOCKED
          STRANGER TAPES)

COPYLIB   CONDENSE (AND SORT) AN EDITLIB USER LIBRARY PRESERVING AL,
          FL, FLO VALUES. BINDEX AND LISTBIN LISTS ARE PROVIDED.

COPYS   ATTACH, EXECUTE AND RETURN THE RIQSCOPYS PROGRAM

CPINDEX   CONVERT SEQUENTIAL PROCEDURE FILE TO RANDOM

CV29   CONVERT TO 029 PUNCH CODE

DOCADD   ADD ONE DOCUMENT TO A DOCUMENTATION FILE

DOCDELE   DELETE ONE DOCUMENT FROM A DOCUMENTATION FILE

DOCDOC   LIST DOCUMENTATION FOR PROCEDURES DOCADD, DOCDELE, DOCDOC,
          DOCFILE, DOCGET, DOCLIST, DOCREPL

DOCFILE   ATTACH A DOCUMENTATION FILE

DOCGET   GET (EXTRACT) SPECIFIED DOCUMENT FROM A DOCUMENTATION FILE

DOCLIST   LIST DOCUMENT NAMES (ON *DECK) CARDS IN A DOCUMENTATION FILE

DOCREPL   REPLACE ONE DOCUMENT IN A DOCUMENTATION FILE

DOCTAPE   EXTRACT A DOCUMENT FROM TAPE

GRIPE   ALLOW USER TO MAKE GRIPES OR SUGGESTIONS DIRECTLY TO THE
          COMPUTER

LIBSET1/2   CREATE SIMPLE ABSOLUTE USING ONE/TWO EDITLIB LIBRARY(IES)

LINE8/6   SET PRINT FILE TO 8/6 LINES PER INCH

MFX   TELL USER THE MAINFRAME ON WHICH HE IS RUNNING

MNSRDC   EXECUTE A PROGRAM ON EDITLIB USER LIBRARY 'MNSRDC'

MYPRO   EXECUTE A PROCEDURE ON FILE 'PROFIL' CATALOGED UNDER ANY ID

NOGO   CREATE SIMPLE ABSOLUTE FROM RELOCATABLE

NORERUN   INSURE THAT A BATCH JOB CANNOT BE RERUN BY OPERATOR TYPE-IN

PGMTAPE   EXTRACT A SOURCE PROGRAM FROM TAPE

PM   CREATE CERTAIN PRINT MESSAGE (PM) RECORDS

PROADD   ADD ONE PROCEDURE TO A SEQUENTIAL PROCEDURE FILE

PROALL   LIST PROCEDURE NAMES, PROCEDURE HEADERS AND THE PROCEDURES IN
            A SEQUENTIAL PROCEDURE FILE (COMBINES PRONAM, PROHDR AND
            PROLIST)

PRODELE   DELETE ONE PROCEDURE FROM A SEQUENTIAL PROCEDURE FILE

PRODOC   LIST DOCUMENTATION FOR PROCEDURES PROADD, PROALL, PRODELE,
            PRODOC, PROGET, PROHDR, PROLIST, PRONAM, PROREPL

PROGET   GET (EXTRACT) ONE PROCEDURE FROM A SEQUENTIAL PROCEDURE FILE

PROGRAM   EXECUTE A CATALOGED PROGRAM (NOT IN A LIBRARY)

PROHDR   LIST PROCEDURE HEADERS IN A PROCEDURE FILE

PROLIST   LIST PROCEDURE(S) IN A SEQUENTIAL PROCEDURE FILE

PRONAM   LIST NAMES OF PROCEDURES IN A SEQUENTIAL PROCEDURE FILE

PROREPL   REPLACE ONE PROCEDURE IN A SEQJENTIAL PROCEDURE FILE

RECADD   ADD ONE OR MORE LOGICAL RECORDS TO A FILE

RECDELE   DELETE ONE OR MORE LOGICAL RECORDS FROM A FILE

RECDOC   LIST DOCUMENTATION FOR PROCEDURES RECADD, RECDELE, RECDOC,
            RECGET, RECREPL

RECGET   EXTRACT ONE OR MORE LOGICAL RECORDS FROM A FILE

RECREPL   REPLACE ONE OR MORE LOGICAL RECORDS IN A FILE

RENAMAC   RENAME AC FIELD ON PERMANENT FILES

RUNBAS   COMPILE AND EXECUTE BASIC PROGRAM (SIMILAR TO EDITOR RUN,BAS
            FOR USE OUTSIDE EDITOR)

RUNFTN   COMPILE AND EXECUTE FTN PROGRAM (SIMILAR TO EDITOR RUN,FTN
            FOR USE OUTSIDE EDITOR)

RUNMNF   COMPILE AND EXECUTE MNF PROGRAM

RUNSEQ   COMPILE AND   EXECUTE FTN,SEQ PROGRAM (SOURCE   PROGRAM IN
            SEQUENCED FORMAT - TIME-SHARING OPTION)

RUNTS   COMPILE AND EXECUTE FTN,TS PROGRAM (TIME-SHARING OPTION)

SELDUMP   CREATE BACKUP DUMP TAPE OF USER PERMANENT FILES OF AN ACCOUNT
            NUMBER

SELLOAD   RESTORE SELECTED ROUTINES FROM A BACKUP DUMPF TAPE

SEND   SEND MESSAGES TO AN INTERCOM USER WHO IS NOT LOGGED IN; LIST
            MESSAGES

STRUCT   GENERATE CROSS-REFERENCE LISTS AND TREE STRUCTURE FROM BINARY
            RELOCATABLE OBJECT FILE

S2K260   ATTACH FILES FOR S2000 (VERSION 2.60) NATURAL LANGUAGE,
            FORTRAN, OR COBOL PROCEDURAL LANGUAGE INTERFACE

S2000   ATTACH OR RETURN FILES FOR S2000 NATURAL LANGUAGE, FTN OR
            COBOL PROCEDURAL LANGUAGE INTERFACE FROM PROPER DEVICE

TIDBITS   LIST FILE OF TIDBITS (HINTS ON IMPROVED COMPUTER USAGE)

TRANPAK   COPY CONTENTS FROM ONE DEVICE SET TO ANOTHER FOR BACKUP

UPDADD   ADD ONE DECK TO AN UPDATE LIBRARY

UPDDELE   DELETE ONE DECK FROM AN UPDATE LIBRARY

UPDDOC   LIST DOCUMENTATION FOR PROCEDURES UPDADD, UPDDELE, UPDDOC,
            UPDGET, UPDLIST, UPDREPL

UPDGET   EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,C) AND,
            OPTIONALLY, ADD EDITOR SEQUENCING

UPDGETS   EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,S) AND,
            OPTIONALLY, ADD EDITOR SEQUENCING

UPDGETT   EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,T) AND,
            OPTIONALLY, ADD EDITOR SEQUENCING

UPDLIST   LIST DECK/COMDECK NAMES IN UPDATE LIBRARY WITH COUNT OF
            RECORDS IN EACH DECK/COMDECK

UPDREPL   REPLACE ONE DECK IN AN UPDATE LIBRARY

UTILITY   EXECUTE A PROGRAM ON LIBRARY 'UTILITY'

VENUS   ATTACH AND EXECUTE ONE OF THE VENUS RETRIEVAL PROGRAMS

WHATLIB   LIST LIBRARIES SPECIFIED IN LAST 'LIBRARY' COMMAND

*****   PROCEDUPE DOCUMENTATION   *****

THIS CHAPTER CONTAINS THE DOCUMENTATION FOR ALL PROCEDURES IN
PUBLIC-ACCESS PROCEDURE FILE 'PROFIL'.

INDIVIDUAL DOCUMENTS MAY BE PRINTED USING:

            BEGIN,UTILITY,,PROGDOC,PROFIL,,<PROCNAME>,OUTPUT.

WHERE <PROCNAME> IS THE DESIRED DOCUMENT.

SEVERAL DOCUMENTS MAY BE PRINTED AT ONE TIME USING:

```
            JOBNAME.
            CHARGE,....
            BEGIN,UTILITY,,MANYDOC,PROFIL.
            '   7/8/9      EOR
            <PROCNAME1>
            <PROCNAME2>
               ...
            <PROCNAMEN>
            "   6/7/8/9    EOF
```

PROCEDURE 'ANYLIB'

PURPOSE
    EXECUTE A PROGRAM ON ANY EDITLIB USER LIBRARY

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,ANYLIB,,LIB,ID,PROG,PARAMS.

DESCRIPTION OF PARAMETERS
    LIB   - 1-7 CHARACTER LIBRARY PFN
    ID   - ID IT IS CATALOGED UNDER.
               (DEFAULT: SYSTEM PUBLIC ACCESS ID)
               USE 0 (ZERO) IF FILE IS ALREADY ATTACHED
               AND IS TO REMAIN ATTACHED AT THE END OF THE
               PROCEDURE.
    PROG   - PROGRAM TO BE EXECUTED
    PARAMS   - UP TO 13 PARAMETERS FOR 'PROG'

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS ON PROGRAM BEING EXECUTED

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 1975

DATE(S) REVISED

PROCEDURE 'ANYPRO'

PURPOSE
    EXECUTE A PROCEDURE ON ANY CATALOGUED PROCEDURE FILE
    (HAVING ANY 1-7 CHARACTER PFN)

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,ANYPRO,,PFN,ID,PRO,PARAMS.

DESCRIPTION OF PARAMETERS
    PFN   - 1-7 CHARACTER PERMANENT FILE NAME OF PROCEDURE
               FILE
    ID   - ID UNDER WHICH IT IS CATALOGED
    PRO   - PROCEDURE NAME
    PARAMS   - UP TO 17 POSITIONAL PARAMETERS FOR PROCEDURE 'PRO'

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROCEDURE BEING EXECUTED

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/21/76

DATE(S) REVISED

PROCEDURE 'AUDIT'

PURPOSE
   SORTED USER AUDIT

FUNCTIONAL CATEGORY: SO M1

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,AUDIT,KEYWORD-PARAMETERS.

DESCRIPTION OF PARAMETERS
   THE FOLLOWING KEYWORDS ARE SUPPORTED:
      AI= - TYPE OF AUDIT DESIRED
               AI=F - FULL AUDIT (2 LINES PER FILE)
               AI=I - INTERCOM AUDIT (72-COLUMNS)
               AI=P - PARTIAL AUDIT (1 LINE PER FILE)
                      (DEFAULT)
               AI=S - SHORT AUDIT (PRUS, CY, PFN ONLY)
      AC= - ACCOUNT NUMBER FOR THE AUDIT
      ID= - ID TO BE AUDITED
      LF= - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
   BEGIN,AUDIT,AI=P,LF=OUTPUT,ID=<CHARGE CARD OR LOGIN ID>.

MAX FL: 350008

REMARKS
   USE AUDIT BY ID BECAUSE IT IS MUCH FASTER AND MUCH CHEAPER.

   UP TO 1000 PFN'S MAY BE AUDITED. IF MORE THAN 1000
   REQUIRED, CALL USER SERVICES.

EXAMPLE
   BEGIN,AUDIT,AI=I,ID=CXXX.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
   06/29/76 - ADD 'MAX' CAPABILITY
   03/03/77 - REMOVE 'MAX' CAPABILITY (SORTING PROGRAM
              USED WILL HANDLE 1000 PFNS)

PROCEDURE 'BDT'

PURPOSE

FUNCTIONAL CATEGORY: Q0

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,BDT,,OUTPUT.

DESCRIPTION OF PARAMETER
   OUTPUT - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
   BEGIN,BDT,,OUTPUT.

MAX FL: 23000B

REMARKS
   NONE

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: EARLY 1975

DATE(S) REVISED

PROCEDURE 'CALC3D'

PURPOSE
    THREE-D PROCEDURE FOR CALCOMP 763, 936, 1700 PLOTTERS

FUNCTIONAL CATEGORY: J5

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,CALC3D,,MAC,VSN1,VSN2,TID,INPUT,RERUN.

DESCRIPTION OF PARAMETERS
    MAC   - ONE OF --
                763 - CALCOMP 763 PLOTTER
                936 - CALCOMP 936 PLOTTER (DEFAULT)
                170 - CALCOMP PLOTTER ON 1700
    VSN1   - TAPE DIEBOLD OR SLOT NUMBER
                (6 CHARACTERS OR LESS)
                (UNLABELLED TAPE FOR MAC=763;
                LABELLED TAPE FOR MAC=936)
    VSN2   - EXTERNAL STICKER LABEL
                (SLOT TAPES ONLY)
    TID   - 1700 TERMINAL ID FOR ROUTING PLOTTER OUTPUT
                (USED ONLY WHEN MAC=170)
                (DEFAULT: AF)
    INPUT   - FILE CONTAINING CONTROL CARDS
    RERUN   - THIS PARAMETER FACILITATES SAME DAY RERUN USING
                THE SAME TAPE.
                OMITTED OR 'W' - FIRST/ONLY TIME THIS TAPE IS USED
                                 TODAY
                'R'   - RERUN ON SAME DAY
                THIS PARAMETER HAS MEANING ONLY FOR MAC=936.
                HOWEVER, IF SPECIFIED, IT MUST BE A VALID ENTRY.

DEFAULT BEGIN STATEMENT
    BEGIN,CALC3D,,936,*,*,AF,INPUT,W.
        * - NO DEFAULTS FOR THESE PARAMETERS

MAX FL:

REMARKS
    A 936 JOB WILL CREATE A LABELLED TAPE WITH A RETENTION
    PERIOD OF ONE DAY. SUBSEQUENT RERUN(S) ON THE SAME DAY
    WILL CAUSE THE JOB TO TERMINATE BECAUSE OF UNEXPIRED LABEL.
    SPECIFYING RERUN=R WILL CAUSE THE CURRENT LABEL TO BE
    CHECKED RATHER THAN BE RE-WRITTEN. THE FIRST OR ONLY
    RUN SHOULD OMIT THE RERUN PARAMETER SO THAT THE CURRENT DATE
    WILL BE WRITTEN ON THE LABEL.

EXAMPLES
    BEGIN,CALC3D,,936,CA9999.
        (USE LABELLED TAPE CA9999 FOR CALCOMP 936 PLOTTER)

    BEGIN,CALC3D,,763,SLOT01,MYTAPE.
        (USE UNLABELLED TAPE IN SLOT 01 HAVING EXTERNAL
        LABEL 'MYTAPE' FOR CALCOMP 763 PLOTTER)

    BEGIN,CALC3D,,170,TID=AG.
        (PLOT FOR CALCOMP PLOTTER AT 1700 TERMINAL 'AG')

AUTHOR
    SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
    07/23/76
    10/07/76 - MAKE TRANSPARENT TO USER

```
PROCEDURE 'CCIRM'

PURPOSE
    PRINT ONE COPY OF COMPUTER CENTER INTRODUCTORY REFERENCE
    MANUAL (CCIRM)

FUNCTIONAL CATEGORY:    01

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,CCIRM,,OUTPUT.

DESCRIPTION OF PARAMETER
    OUTPUT  - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
    BEGIN,CCIRM,,OUTPUT.

MAX FL: 6000B

REMARKS
    OUTPUT SHOULD BE PRINTED ON NARROW PAPER.
        CENTRAL SITE:
            BEGIN,CCIRM.
            ROUTE,OUTPUT,TID=C,FC=1T.
        1700 AND OTHER TERMINALS SUPPORTING 'PM' MESSAGES:
            BEGIN,PM,,1T.
            BEGIN,CCIRM.
            BEGIN,PM.
            ROUTE,OUTPUT,TID=**.      ** - TERMINAL-ID

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/27/77

DATE(S) REVISED
```

PROCEDURE 'CCLIB'

PURPOSE
    PRINT ONE COPY OF CCLIB, CCLIB/M, CCLIB/N, CCLIB/P, OR
    CCLIB/U MANUAL

FUNCTIONAL CATEGORY: 01

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,CCLIB,,WHICH,OUTPUT.

DESCRIPTION OF PARAMETERS
    WHICH   - WHICH MANUAL TO PRINT
              OMITTED - CCLIB
              M   - CCLIB/M
              N   - CCLIB/N
              P   - CCLIB/P
              U   - CCLIB/U
    OUTPUT - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
    BEGIN,CCLIB,,,OUTPUT.

MAX FL: 32000B

REMARKS
    NONE

ERROR MESSAGES
    FILE NOT CATALOGED, SN=SYSSET
    PF ABORT
        USER-SPECIFIED VALUE FOR 'WHICH' IS INVALID

    INVALID OPTION (<WHICH>)
    MUST BE OMITTED OR ONE OF M/N/P/U
        USER-SPECIFIED VALUE FOR 'WHICH' IS INVALID

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 08/30/77

DATE(S) REVISED

PROCEDURE 'CCRM'

PURPOSE
    PRINT COPIES OF THE COMPUTER CENTER REFERENCE MANUAL

FUNCTIONAL CATEGORY: 01

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,CCRM,,COPIES,OUTPUT,PM,<CHAPTERS>.

DESCRIPTION OF PARAMETERS
    COPIES   - NUMBER OF COPIES TO PRINT (DEFAULT: 1)
    OUTPUT   - LISTABLE OUTPUT
    PM   - IF OMITTED, NO PM MESSAGES AT START AND END OF
                   OUTPUT FILE (DEFAULT).
                   IF ANYTHING ELSE,
                       'PM 1-PART NARROW UNLINED PAPER'
                   IS INSERTED AT THE START, AND
                       'PM RESTORE PRINTER'
                   FOLLOWS THE END OF THE OUTPUT FILE.
    <CHAPTERS>   - ONE OF THE FOLLOWING:
                   ALL - PRINT ENTIRE MANUAL (DEFAULT)
                   ONE OR MORE CHAPTER NUMBERS, SEPARATED BY
                   COMMAS (0-15, WHERE 0 IS THE TABLE OF CONTENTS
                   AND 15 IS THE INDEX)

DEFAULT BEGIN STATEMENT
    BEGIN,CCRM,,1,OUTPUT,,ALL.

MAX FL: 20000B

REMARKS
    NONE

EXAMPLES
    TO PRINT 1 COPY OF THE ENTIRE MANUAL:
        BEGIN,CCRM.

    TO PRINT 1 COPY OF CHAPTERS 2, 3, 6, 10:
        BEGIN,CCRM,,,,,2,3,6,10.

    TO PRINT 2 COPIES OF CHAPTER 4 (FORTRAN):
        BEGIN,CCRM,,2,,,4.

    TO PRINT 1 COPY OF THE MANUAL ON NARROW, UNLINED
    PAPER AT REMOTE TERMINAL AE:
        BEGIN,CCRM,,,OUT,PM.
        ROUTE,OUT,DC=PR,TID=AE,FID=*.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 09/75

DATE(S) REVISED
    03/02/77 - IF OUTPUT IS MAGNETIC TAPE, IT IS CODED.

PROCEDURE 'COMLIST'

PURPOSE
    PREPARE COM (MICROFICHE) TAPE FROM A PRINT FILE (NO TITLING
    ON FICHE)

FUNCTIONAL CATEGORY: K4

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,COMLIST,,MYFILE,ID,VSN,SLOT.

DESCRIPTION OF PARAMETERS
    MYFILE - FILE TO BE COPIED (1-7 CHARACTERS)
    ID   - OMITTED   - MYFILE IS LOCAL FILE NAME
              SPECIFIED - MYFILE IS PERMANENT FILE NAME
                          (FILE WILL BE ATTACHED AND RETURNED)
    VSN   - DIEBOLD TAPE NUMBER (IF SLOT OMITTED)
              EXTERNAL STICKER LABEL (IF SLOT SPECIFIED)
    SLOT   - SLOT NUMBER (SLOTNN)
              (OMIT FOR DIEBOLD TAPE)

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 21000B

REMARKS
    MAY BE USED IN BATCH MODE ONLY (NOT IN INTERACTIVE MODE).

    USES ONE 9-TRACK TAPE (MUST RUN ON 6700).

    SPECIFY COM CARD 'CLC4' WHEN HAVING TAPE PROCESSED ON COM
    UNIT.

ERROR MESSAGES
    BATCH ONLY, CANNOT RUN FROM INTERCOM
        SELF-EXPLANATORY

    FILE NAME REQUIRED
        USER SPECIFIED MYFILE=. MUST HAVE A FILE NAME.

    VSN REQUIRED
        SELF-EXPLANATORY

EXAMPLES
1. COMPILE A PROGRAM TO BE PUT ONTO MICROFICHE.   USE DIEBOLD
   TAPE.

```
        JOBNAME,NT1,STMFA.
        CHARGE,....
        ATTACH,IN,MYSOURCE,ID=XXXX.
        FTN,I=IN,OPT=1,R=3,L=OUT.
        REWIND,OUT.
        BEGIN,COMLIST,,OUT,,CA9999.
        "   6/7/8/9    EOF
```

2. PUT A PREVIOUSLY CATALOGED FILE ON MICROFICHE. USE A SLOT
   TAPE.

```
        JOBNAME,NT1,STMFA.
        CHARGE,....
        BEGIN,COMLIST,,MYLIST,XXXX,MYTAPE,SLOT88.
        "   6/7/8/9    EOF
```

AUTHOR
    BARBARA J DAVIS - DTNSRDC CODE 1892.1
    DAVID V SOMMER   - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/15/77

DATE(S) REVISED

PROCEDURE 'COPYBLK'

PURPOSE
    REBLOCK STRANGER TAPES TO SCOPE STANDARD FILES (BOTH
    UNBLOCKED CARD AND PRINT LINE IMAGE TAPES AND BLOCKED
    STRANGER TAPES)

FUNCTIONAL CATEGORY: K4

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,COPYBLK,,RB,MRL,MBL,TAPE1,TAPE2,REW1,REW2.

DESCRIPTION OF PARAMETERS
    RB   - NUMBER OF RECORDS PER BLOCK
                IF OMITTED OR 1 - COPY UNBLOCKED STRANGER
                    FILES (CARD AND PRINT LINE IMAGES)
                OTHER - COPY BLOCKED STRANGER FILES
    MRL   - MAXIMUM RECORD LENGTH (RB NOT EQ 1)
                (NUMBER OF 6-BIT CHARACTERS)
    MBL   - MAXIMUM BLOCK LENGTH (RB NOT EQ 1)
                (TOTAL NUMBER OF CHARACTERS PER BLOCK (MUST
                BE RB TIMES MRL))
    TAPE1   - INPUT STRANGER FILE (SEE REMARKS)
    TAPE2   - OUTPUT SCOPE STANDARD FILE
    REW1   - OMITTED - REWIND TAPE1 AFTER USE
                N   - DO NOT REWIND TAPE1 AFTER USE
    REW2   - OMITTED - REWIND TAPE2 AFTER USE
                N   - DO NOT REWIND TAPE2 AFTER USE

DEFAULT BEGIN STATEMENT
    IF RB OMITTED OR 1:
        BEGIN,COPYBLK,,1,150,150,TAPE1,TAPE2.
    IF RB NOT EQ 1:
        BEGIN,COPYBLK,,RB,80,*,TAPE1,TAPE2.
            (* - USER MUST SUPPLY)

MAX FL: 70000B

REMARKS
    A 9-TRACK TAPE MUST BE COPIED TO DISK BEFORE USING COPYBLK.

EXAMPLES
    BEGIN,COPYBLK.
        (COPY UNBLOCKED FILES)
    BEGIN,COPYBLK,,10,MBL=800.
        (COPY BLOCKED CARD-IMAGE FILES, 10 RECORDS PER
        BLOCK. NOTE THAT USER MUST SUPPLY MBL.)

AUTHOR
    SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
    10/07/76 - REVERT(ABORT) ADDED
    11/22/76 - REW1,REW2 ADDED

PROCEDURE 'COPYLIB'

PURPOSE
    CONDENSE (AND SORT) AN EDITLIB USER LIBRARY PRESERVING AL,
    FL, FLO VALUES. BINDEX AND LISTBIN LISTS ARE PROVIDED.

FUNCTIONAL CATEGORY: K3   Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,COPYLIB,,LIB,ID,OUTPUT,SORT,NOEDLST,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
    LIB   - PFN OF LIBRARY (1-7 CHARACTERS)
    ID   - ID UNDER WHICH LIBRARY IS CATALOGED
                (DEFAULT: SYSTEM PUBLIC ACCESS ID)
    OUTPUT   - LISTABLE OUTPUT
    SORT   - OMITTED OR 'SORT' - SORT ROUTINE NAMES
                                    (NEW LIBRARY MAY BE REORDERED)
                ANYTHING ELSE   - DO NOT SORT
    NOEDLST - OMITTED   - DO NOT PRINT A COPY OF EDITLIB
                                   OUTPUT
                ANYTHING ELSE - PRINT EDITLIB OUTPUT
    AC   - JOB ORDER NUMBER FOR CATALOG OF NEW LIBRARY
                (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS FOR CATALOG OF NEW LIBRARY

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 460008+

REMARKS
    THE LOWEST CYCLE OF LIB IS PURGED, IF POSSIBLE. AT LEAST 2
    CYCLES ARE ALWAYS RETAINED.

    OCCASIONALLY, EDITLIB WILL LOSE A PORTION OF A DECK DURING
    THE COPY PROCESS. THE DIRECTORY WILL SHOW THAT THE DECK IS
    THERE, BUT EXECUTING IT WILL CAUSE A LOADER ERROR. FOR THIS
    REASON, THE 'LISTBIN' LIST IS PROVIDED. A QUICK EXAMINATION
    OF THIS LIST WILL SHOW ANY TROUBLE SPOTS. IN ADDITION TO
    THE LINES FOR EACH DECK IN THE LIBRARY, THERE SHOULD BE SIX
    (6) OTHER LINES (PRECEDED BY RIGHT BRACKET (})). NORMALLY,
    THEY ARE AT THE END OF THE LIBRARY, BUT MAY BE SPLIT FOUR
    (4) AT THE START AND TWO (2) AT THE END OF THE LIBRARY.
    ONE OR MORE '}' LINES ANYWHERE ELSE IN THE LISTBIN LISTING
    INDICATES WHERE THE BAD DECK IS. THE QUICKEST WAY TO

```
    RESTORE THE 'MISSING' DECK IS AS FOLLOWS:
        ATTACH,MYLIB,ID=CXXX,PW=....        (GET CURRENT CYCLE
                                             WITH EXTEND PERMISSION)
        ATTACH,LC,MYLIB,ID=CXXX,LC=1.       (GET LOWEST CYCLE)
        BEGIN,UTILITY,,GETOBJ,LC,ROUTINE,FILE,LIB.     (EXTRACT
                                                        ROUTINE)

        EDITLIB.
        EXTEND,MYLIB.
        *   7/8/9      EOR
        LIBRARY(MYLIB,OLD)
        REPLACE(*,FILE)
        FINISH.
        ENDRUN.
        **   6/7/8/9    EOF
```

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 11/18/76

DATE(S) REVISED

PROCEDURE 'COPYS'

PURPOSE
    ATTACH, EXECUTE AND RETURN THE RIQSCOPYS PROGRAM

FUNCTIONAL CATEGORY: K1

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,COPYS,,COPY,INPUT,OUTPUT,N.

DESCRIPTION OF PARAMETERS
    COPY   - ONE OF THE 'COPYS(COPY' OPTIONS
               (SEE COMPUTER CENTER REFERENCE MANUAL, P 10-21.1)
    INPUT   - INPUT FILE
    OUTPUT   - OUTPUT FILE
    N   - NUMBER OF TIMES OR FILES

DEFAULT BEGIN STATEMENT
    BEGIN,COPYS,,COPY,INPUT,OUTPUT,1.

MAX FL: 15000B

REMARKS
    IF USER HAS ALREADY ATTACHED RIQSCOPYS (WITH LFN 'COPYS'),
    HE WILL STILL HAVE IT AFTER THIS PROCEDURE.

EXAMPLE
    REWIND AND COPY A RANDOM FILE:
        ATTACH,RANIN,....   INPUT RANDOM FILE
        REQUEST,RANOUT,*PF.   OUTPUT RANDOM FILE
        BEGIN,COPYS,,COPYIX,RANIN,RANOUT.
        CATALOG,RANOUT,....

AUTHOR
    NORTHWESTERN UNIVERSITY

DATE WRITTEN:

DATE(S) REVISED

PROCEDURE 'CPINDEX'

PURPOSE
    CONVERT SEQUENTIAL PROCEDURE FILE TO RANDOM

FUNCTIONAL CATEGORY: K3 Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,CPINDEX,,IDS,IDR,AC,PWR1,PWR2.

DESCRIPTION OF PARAMETERS
    IDS   - ID UNDER WHICH SEQUENTIAL FILE 'PROFILS' IS
               CATALOGED
    IDR   - ID UNDER WHICH RANDOM FILE 'PROFIL' IS TO BE
               CATALOGED
    AC   - JOB ORDER NUMBER FOR CATALOG
               (MAY BE OMITTED)
    PWR1,2   - PASSWORDS FOR RANDOM FILE
               (WILL HAVE EFFECT ONLY IF AT LEAST ONE CYCLE OF
               RANDOM FILE 'PROFIL' EXISTS BEFORE CPINDEX IS
               EXECUTED)

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL:

REMARKS
    PFN OF SEQUENTIAL FILE MUST BE 'PROFILS'.
    PFN OF RANDOM FILE WILL BE 'PROFIL'.
    LOWEST CYCLE OF 'PROFIL' WILL BE PURGED, IF POSSIBLE.
    AT LEAST 2 CYCLES WILL ALWAYS BE RETAINED.

AUTHOR
    DAVID W SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
    07/23/76
    10/04/76 - CORRECT RETENTION OF LAST 2 CYCLES. CPINDEX
               MAY NOW BE EXECUTED EVEN IF NO RANDOM FILE EXISTS
               BEFORE EXECUTION. IN THE LATTER CASE, PASSWORDS
               (PWR1, PWR2) ARE NOT ADDED TO THE CATALOGED FILE.

PROCEDURE 'CPU'

PURPOSE
    TELL TELETYPE USER WHICH MACHINE HE IS ON

FUNCTIONAL CATEGORY: Q0

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,CPU.

DEFAULT BEGIN STATEMENT
    BEGIN,CPU.

MAX FL: 15000B

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/10/76

DATE(S) REVISED

PROCEDURE 'CV29'

PURPOSE
    CONVERT TO 029 PUNCH CODE

FUNCTIONAL CATEGORIES: J1 M2 01

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,CV29,,LFN,TID.

DESCRIPTION OF PARAMETERS
    LFN   - FILE TO BE CONVERTED
    TID   - ID OF TERMINAL AT WHICH THE 029 DECK IS TO BE
              PUNCHED. USE 'C' FOR CENTRAL SITE OR USE THE
              2-CHARACTER 1700 ID.

DEFAULT BEGIN STATEMENT
    BEGIN,CV29,,INPUT,C.

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: EARLY 1975

DATE(S) REVISED
    01/31/77 - ADD REQUEST,TAPE1,*Q.

PROCEDURE 'DOCADD'

PURPOSE
    ADD ONE DOCUMENT TO A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,DOCADD,,LIB,ID,PROG,AFTER,LFN,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
    LIB   - FIRST PART OF DOCUMENTATION FILE PFN
              (FULL PFN IS LIB_DOCUMENTATION)
    ID   - ID UNDER WHICH IT IS CATALOGED
              (DEFAULT: SYSTEM PUBLIC ACCESS ID)
    PROG   - NAME OF DOCUMENT TO BE ADDED
    AFTER   - NAME OF DOCUMENT AFTER WHICH THIS DOCUMENT IS TO
              BE PLACED
              (IF BLANK, WILL GO IN ALPHABETICAL ORDER.
              IF '0', WILL GO AT START OF FILE.
              IF 'END', WILL GO AT END OF FILE.)
    LFN   - LFN OF FILE CONTAINING NEW DOCUMENT.
              IT IS REWOUND BEFORE BEING READ. IT MUST NOT
              CONTAIN A *DECK CARD.
    AC   - JOB ORDER NUMBER FOR CATALOG
              (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 310003

REMARKS
    THE LOWEST CYCLE OF LIB_DOCUMENTATION IS PURGED, IF
    POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

EXAMPLES
    ASSUME THE OLD DOCUMENT FILE WAS CATALOGED WITH:
        CATALOG,FILE,MYDOCUMENTATION,ID=CXXX,XR=RONLY.
    AND HAS DOCUMENTS: A, B, D, F, G, H.

    TO ADD DOCUMENT C (ON LFN CC) IN ALPHABETICAL ORDER:
        BEGIN,DOCADD,,MY,CXXX,C,,CC,,RONLY.
    THE NEW DOCUMENT FILE WILL HAVE: A, B, C, D, F, G, H.

    TO ADD DOCUMENT C (ON LFN CC) AT START OF THE FILE:
        BEGIN,DOCADD,,MY,CXXX,C,0,CC,,RONLY.
    THE NEW DOCUMENT FILE WILL HAVE: C, A, B, D, F, G, H.

    TO ADD THE DOCUMENT C (ON LFN CC) AT THE END OF THE FILE:
        BEGIN,DOCADD,,MY,CXXX,C,END,CC.
    THE NEW DOCUMENT WILL HAVE: A, B, D, F, G, H, C.

TO ADD THE DOCUMENT C (ON LFN CC) AFTER DOCUMENT F:
    BEGIN,DOCADD,,MY,CXXX,C,F,CC,,RONLY.
THE NEW DOCUMENT FILE WILL HAVE: A, B, D, F, C, G, H.

SUGGESTED COMPLETE SEQUENCE OF OPERATIONS FOR CREATING A
DOCUMENT (USING DOC AND EDITOR) AND ADDING IT TO AN EXISTING
DOCUMENT FILE:
    CONNECT,OUTPUT
    ATTACH,UTILITY.
    LIBRARY,UTILITY.
    DOC.   (OR   MTDOC.   OR   PFDOC.)
        (CREATE DOCUMENT IN FILE 'DOCMNT')
    EDITOR
    EDIT,DOCMNT,SEQ
        (MODIFY, IF NECESSARY.   INDICATE START OF EACH PAGE
        BY PUTTING A '1' IN COLUMN 1 OF EACH LINE WHICH IS TO
        BE THE FIRST LINE OF A PAGE.)
    SAVE,NEWDOC,NOSEQ
    LINER,NEWDOC.
        (WILL COUNT PAGES AND LINES PER PAGE. IF ANY PAGE HAS
        MORE THAN 59 LINES, GO BACK AND RESTRUCTURE THE
        DOCUMENT.)
    BYE
    DOCIT,NEWDOC,FILE.
        (WILL LENGTHEN EACH PAGE TO 60 LINES ADDING THE DATE,
        DOCUMENT NAME AND PAGE COUNTS.)
    BEGIN,DOCADD,,MYLIB,CXXX,DOCNAME,,FILE,,RDONLY.
        (WILL ADD THE DOCUMENT JUST CREATED (ON LFN 'FILE') TO
        THE DOCUMENT FILE WITH PFN=MYLIBDOCUMENTATION,
        ID=CXXX, IN ALPHABETICAL ORDER ACCORDING TO THE
        SPECIFIED DOCUMENT NAME 'DOCNAME'. ALPHABETICAL
        ORDER IS RECOMMENDED SO THAT LISTS OF THE CONTENTS
        WILL BE MORE READABLE.)
    BEGIN,DOCLIST,,MYLIB,CXXX,OUT.
        (GET A LIST OF DOCUMENT NAMES WITH NUMBER OF CARDS,
        LINES AND PAGES FOR EACH.)
    PROGDOC,MYLIB,CXXX,DOCNAME,OUT.
        (LIST THE DOCUMENT FROM THE DOCUMENT FILE TO VERIFY IT
        WAS ADDED PROPERLY.)
    BANNER,END,OUT.
        (TO KEEP THE SYSTEM FROM PRINTING "END OF LIST"
        MESSAGES ON LAST PAGE OF DOCUMENT.)
    ROUTE,OUT,DC=PR,....
        (PRINT THE LISTS ON ANY AVAILABLE PRINTER.)

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED

PROCEDURE 'DOCDELE'

PURPOSE
    DELETE ONE DOCUMENT FROM A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,DOCDELE,,LIB,ID,PROG,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
    LIB   - FIRST PART OF DOCUMENTATION FILE PFN
                 (FULL PFN IS LIB_DOCUMENTATION)
    ID   - ID UNDER WHICH IT IS CATALOGED
                 (DEFAULT: SYSTEM PUBLIC ACCESS ID)
    PROG   - NAME OF DOCUMENT TO BE DELETED
    AC   - JOB ORDER NUMBER FOR CATALOG
                 (MAY BE OMITTED)

DEFAULT BEGIN STATEMENT
    PW1,PW2 - PASSWORDS   NT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 31000B

REMARKS
    THE LOWEST CYCLE OF LIB_DOCUMENTATION IS PURGED, IF
    POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

EXAMPLES
    ASSUME THE OLD DOCUMENT FILE WAS CATALOGED WITH:
        CATALOG,FILE,MYDOCUMENTATION,ID=CXXX,XR=RONLY.
    AND HAS DOCUMENTS: A, B, D, F, G, H.

    TO DELETE DOCUMENT G:
        BEGIN,DOCDELE,,MY,CXXX,G,,RONLY.
    THE NEW DOCUMENT FILE WILL HAVE: A, B, D, F, H.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED

PROCEDURE 'DOCDOC'

PURPOSE
    LIST DOCUMENTATION FOR PROCEDURES DOCADD, DOCDELE, DOCDOC,
    DOCFILE, DOCGET, DOCLIST, DOCREPL

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,DOCDOC,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
    OUTPUT   - LISTABLE OUTPUT
    LEFT   - OMITTED   - PRINT LEFT-JUSTIFIED ON PAGE
               NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
    BEGIN,DOCDOC,,OUTPUT.

MAX FL: 25000B

REMARKS
    A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD
    'DOCDOC'. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE
    LIST.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/10/77

DATE(S) REVISED

PROCEDURE 'DOCFILE'

PURPOSE
    ATTACH A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,DOCFILE,,LFN,PFN,ID,PW1,PW2.

DESCRIPTION OF PARAMETERS
    LFN   - LOCAL FILE NAME TO BE USED
    PFN   - FIRST PART OF PFN.
               FULL PFN IS PFN_DOCUMENTATION.
    ID   - ID UNDER WHICH IT IS CATALOGED
               (DEFAULT: SYSTEM PUBLIC ACCESS ID)
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 15000B (BEGIN/REVERT REQUIRES 15000B)

REMARKS
    SAME AS: ATTACH,LFN,PFN_DOCUMENTATION,ID=*---*,PW=PW1,PW2.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892

DATE WRITTEN: 02/01/76

DATE(S) REVISED

PROCEDURE 'DOCGET'

PURPOSE
    GET (EXTRACT) SPECIFIED DOCUMENT FROM A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,DOCGET,,LIB,ID,PROG,OUTPUT.

DESCRIPTION OF PARAMETERS
    LIB   - FIRST PART OF PFN
              (FULL PFN IS PFN_DOCUMENTATION)
    ID   - ID UNDER WHICH IT IS CATALOGED
              (DEFAULT: SYSTEM PUBLIC ACCESS ID)
    PROG   - NAME OF DOCUMENT TO BE EXTRACTED
              (USE 'ALL' FOR ALL DOCUMENTS)
    OUTPUT - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
    NO MEANING   DEFAULT VALUES

MAX FL: 30000B

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED

```
PROCEDURE 'DOCLIST'

PURPOSE
    LIST DOCUMENT NAMES (ON *DECK) CARDS IN A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES:   Q6

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,DOCLIST,,LIB,ID,OUTPUT.

DESCRIPTION OF PARAMETERS
    LIB      - FIRST PART OF PFN
                 (FULL PFN IS PFN_DOCUMENTATION)
    ID       - ID UNDER WHICH IT IS CATALOGED
                 (DEFAULT: SYSTEM PUBLIC ACCESS ID)
    OUTPUT   - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 27000B

REMARKS
    IN ADDITION TO THE DOCUMENT NAMES, THE NUMBER OF CARDS,
    LINES AND PAGES IS GIVEN FOR EACH DOCUMENT.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED
    04/23/76
```

PROCEDURE 'DOCREPL'

PURPOSE
   REPLACE ONE DOCUMENT IN A DOCUMENTATION FILE

FUNCTIONAL CATEGORIES: Q6

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,DOCREPL,,LIB,ID,PROG,AFTER,LFN,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
   LIB   - FIRST PART OF DOCUMENTATION FILE PFN
              (FULL PFN IS LIB_DOCUMENTATION)
   ID   - ID UNDER WHICH IT IS CATALOGED
              (DEFAULT: SYSTEM PUBLIC ACCESS ID)
   PROG   - NAME OF DOCUMENT TO BE REPLACED
   AFTER   - NAME OF DOCUMENT AFTER WHICH THIS DOCUMENT IS TO
              BE PLACED
              (IF BLANK, WILL GO IN ALPHABETICAL ORDER.
              IF '0', WILL GO AT START OF FILE.
              IF 'END', WILL GO AT END OF FILE.)
              (USED ONLY IF PROG DOES NOT ALREADY EXIST IN THE
              DOCUMENT FILE.)
   LFN   - LFN OF FILE CONTAINING NEW DOCUMENT.
              IT IS REWOUND BEFORE BEING READ. IT MUST NOT
              CONTAIN A *DECK CARD.
   AC   - JOB ORDER NUMBER FOR CATALOG
              (MAY BE OMITTED)
   PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: 31000B

REMARKS
   THE LOWEST CYCLE OF LIB_DOCUMENTATION IS PURGED, IF
   POSSIBLE. AT LEAST 2 CYCLES ARE ALWAYS RETAINED.

EXAMPLES
   ASSUME THE OLD DOCUMENT FILE WAS CATALOGED WITH:
      CATALOG,FILE,MYDOCUMENTATION,ID=CXXX,XR=RONLY.
   AND HAS DOCUMENTS: A, B, D, F, G, H.

  TO REPLACE DOCUMENT F (NEW DOCUMENT ON LFN FF):
      BEGIN,DOCREPL,,MY,CXXX,F,,FF,,RONLY.
   THE NEW DOCUMENT FILE WILL HAVE: A, B, D, F, G, H.

  TO REPLACE DOCUMENT E (NEW DOCUMENT ON LFN EE):
      BEGIN,DOCREPL,,MY,CXXX,E,,EE,,RONLY.
   THE NEW DOCUMENT FILE WILL HAVE: A, B, D, E, F, G, H.

   NOTE THAT SINCE E DID NOT EXIST, REPLACE WAS CHANGED TO ADD.
   BECAUSE THE AFTER PARAMETER WAS OMITTED, E WAS ADDED
   ALPHABETICALLY.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/01/76

DATE(S) REVISED

PROCEDURE 'GRIPE'

PURPOSE
   ALLOW USER TO MAKE GRIPES OR SUGGESTIONS DIRECTLY TO THE
   COMPUTER.

FUNCTIONAL CATEGORY: S0

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,GRIPE,,OUTPUT,PROMPT,WHOM,INPUT.

DESCRIPTION OF PARAMETERS
   OUTPUT   - LISTABLE OUTPUT, IF USER REQUESTS A COPY OF HIS
               COMMENTS. TO PRINT AT THE TELETYPE, USER MUST
               CONNECT,OUTPUT.
   PROMPT   - INTERACTIVE USE ONLY:
               IF   NO - ONLY NOMINAL PROMPTING IS PROVIDED.
               IF OMITTED OR ANYTHING ELSE - FULL PROMPTING
               IS PROVIDED.
   WHOM   - IF USER HAS HIS ADMINISTRATIVE INFORMATION
               BUILT INTO THE PROGRAM, THIS IS HIS IDENTIFIER.
               IF OMITTED OR INVALID ENTRY - USER WILL BE
               PROMPTED FOR ADMINISTRATIVE INFORMATION.
   INPUT   - BATCH: FILE FROM WHICH GRIPE AND ADMINISTRATIVE
               INFORMATION IS TO BE READ.
               INTERACTIVE: IF GRIPE IS TO BE ENTERED DIRECTLY
               FROM THE KEYBOARD, OMIT THIS PARAMETER.
               IF THE GRIPE WAS PREPARED EARLIER (E.G., USING
               EDITOR), ENTER THE LFN OF THE FILE CONTAINING
               THE GRIPE (DO NOT USE LFN 'INPUT').

   DEFAULT BEGIN STATEMENT
      BATCH   : BEGIN,GRIPE,,OUTPUT,,,INPUT.
      INTERACTIVE: BEGIN,GRIPE,,OUTPUT.

   MAX FL: 36000B

   REMARKS
      ALL GRIPES WILL BE READ AND TROUBLE FORMS PREPARED, IF
      APPROPRIATE.

   DATA CARDS (BATCH ONLY)
      THE GRIPE IS ENTERED IN COLUMNS 1-70 OF AS MANY CARDS AS
      REQUIRED (PLEASE BE BRIEF). THIS IS FOLLOWED BY A CARD WITH
      'END   ' IN COLUMNS 1-10.
      THE LAST CARD HAS ADMINISTRATIVE INFORMATION FOR PREPARING A
      TROUBLE FORM, SHOULD ONE BE NECESSARY. IT CONTAINS:

COL	CONTENTS
1-20	NAME
21-40	DTNSRDC CODE OR COMPANY NAME
41-50	TELEPHONE
51-54	USER INITIALS (OF THE FORM CXXX)

```
EXAMPLES
    THE SIMPLEST FORM FOR BATCH USE:
        JOB CARD
        CHARGE CARD
        BEGIN,GRIPE.
        *       7/8/9    EOR
            (GRIPE)
        END
        NAME     ...     CODE     ...     PHONE     INIT
        "    6/7/8/9    EOF

    THE SIMPLEST FORM FOR INTERACTIVE:
        CONNECT,OUTPUT.
        BEGIN,GRIPE.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/76

DATE(S) REVISED
```

PROCEDURE 'LIBSET1'

PURPOSE
   CREATE SIMPLE ABSOLUTE USING ONE EDITLIB LIBRARY

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,LIBSET1,,LGO,ABS,LIB1,ID1.

DESCRIPTION OF PARAMETERS
   LGO   - RELOCATABLE PROGRAM
   ABS   - RESULTING ABSOLUTE MODULE
   LIB1   - PFN OF EDITLIB USER LIBRARY
              (DEFAULT: NSRDC)
   ID1   - ID UNDER WHICH LIB1 IS CATALOGED
              (DEFAULT: SYSTEM PUBLIC ACCESS ID)

DEFAULT BEGIN STATEMENT
   BEGIN,LIBSET1,,LGO,ABS,NSRDC.

MAX FL: DEPENDS ON PROGRAM BEING LOADED

REMARKS
   NONE

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/01/76

DATE(S) REVISED

PROCEDURE 'LIBSET2'

PURPOSE
    CREATE SIMPLE ABSOLUTE USING TWO EDITLIB LIBRARIES

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,LIBSET2,,LGO,ABS,LIB1,ID1,LIB2,ID2.

DESCRIPTION OF PARAMETERS
    LGO   - RELOCATABLE PROGRAM
    ABS   - RESULTING ABSOLUTE MODULE
    LIB1   - PFN OF FIRST EDITLIB USER LIBRARY
              (DEFAULT: NSRDC)
    ID1   - ID UNDER WHICH LIB1 IS CATALOGED
              (DEFAULT: SYSTEM PUBLIC ACCESS ID)
    LIB2   - PFN OF SECOND EDITLIB USER LIBRARY
              (DEFAULT: NSRDC)
    ID2   - ID UNDER WHICH LIB2 IS CATALOGED
              (DEFAULT: SYSTEM PUBLIC ACCESS ID)

DEFAULT BEGIN STATEMENT
    BEGIN,LIBSET2,,LGO,ABS,NSRDC,,NSRDC.

MAX FL: DEPENDS ON PROGRAM BEING LOADED

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/01/76

DATE(S) REVISED

PROCEDURE 'LINE6'

PURPOSE
    SET PRINT FILE TO 6 LINES PER INCH

FUNCTIONAL CATEGORY: J4

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,LINE6,,OUTPUT.

DESCRIPTION OF PARAMETER
    OUTPUT   - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
    BEGIN,LINE6,,OUTPUT.

MAX FL: 6000B

REMARKS
    USER SHOULD PRINT HIS NEXT LINE AT THE TOP OF THE NEXT PAGE.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/07/76

DATE(S) REVISED

PROCEDURE 'LINE8'

PURPOSE
   SET PRINT FILE TO 8 LINES PER INCH

FUNCTIONAL CATEGORY: J4

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,LINE8,,OUTPUT.

DESCRIPTION OF PARAMETER
   OUTPUT   - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
   BEGIN,LINE8,,OUTPUT.

MAX FL: 6000B

REMARKS
   USER SHOULD PRINT HIS NEXT LINE AT THE TOP OF THE NEXT PAGE.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/07/76

DATE(S) REVISED

PROCEDURE 'MNSRDC'

PURPOSE
    EXECUTE A PROGRAM ON EDITLIB USER LIBRARY 'MNSRDC'

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,MNSRDC,,PROG,PARAMS.

DESCRIPTION OF PARAMETERS
    PROG   - PROGRAM TO BE EXECUTED
    PARAMS - UP TO 19 PARAMETERS FOR 'PROG'

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS ON PROGRAM BEING EXECUTED

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/25/77

DATE(S) REVISED

PROCEDURE 'MYPRO'

PURPOSE
    EXECUTE A PROCEDURE ON FILE 'PROFIL' CATALOGED UNDER ANY ID

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,MYPRO,,ID,PNAME,PARAMS.

DESCRIPTION OF PARAMETERS
    ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
               (PFN MUST BE 'PROFIL')
    PNAME   - PROCEDURE NAME
    PARAMS   - UP TO 18 POSITIONAL PARAMETERS FOR PROCEDURE
               'PNAME'

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROCEDURE BEING EXECUTED

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/21/76

DATE(S) REVISED

PROCEDURE 'NOGO'

PURPOSE
    CREATE SIMPLE ABSOLUTE FROM RELOCATABLE

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,NOGO,,LGO,ABS.

DESCRIPTION OF PARAMETERS
    LGO   - RELOCATABLE PROGRAM
    ABS   - RESULTING ABSOLUTE MODULE
                (MAY BE CATALOGED)

DEFAULT BEGIN STATEMENT
    BEGIN,NOGO,,LGO,ABS.

MAX FL: DEPENDS UPON PROGRAM BEING LOADED

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/21/76

DATE(S) REVISED

PROCEDURE 'NORERUN'

PURPOSE
    INSURE THAT A BATCH JOB CANNOT BE RERUN BY OPERATOR
    TYPE-IN

FUNCTIONAL CATEGORY: QO

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,NORERUN.

DEFAULT BEGIN STATEMENT
    BEGIN,NORERUN.

MAX FL: 4500B

REMARKS
    THIS PROCEDURE WILL CATALOG AND PURGE A DUMMY FILE.

ERROR MESSAGES
    SORRY - NORERUN IS FOR BATCH ONLY
        TRIED TO EXECUTE PROCEDURE OUTSIDE OF BATCH

AUTHOR
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DATE WRITTEN: 06/14/77

DATE(S) REVISED

PROCEDURE 'PGMTAPE'

PURPOSE
    EXTRACT A SOURCE PROGRAM FROM TAPE

FUNCTIONAL CATEGORY: Q6

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PGMTAPE,,LIB,PGM,OUTFILE,CST.

DESCRIPTION OF PARAMETERS
    LIB   - LIBRARY (ONE OF: BIMED, NSRDC (DEFAULT),
                SC4020, SSP)
    PGM   - PROGRAM DESIRED
    OUTFILE - FILE TO CONTAIN SOURCE PROGRAM
    CST   - TYPE OF FILE DESIRED
                C - COMPILE FILE (UPDATE,C=OUTFILE)
                S - SOURCE FILE (UPDATE,S=OUTFILE)
                T - SOURCE FILE (UPDATE,T=OUTFILE)

DEFAULT BEGIN STATEMENT
    BEGIN,PGMTAPE,,NSRDC,*,COMPILE,C.
        (* - USER MUST SUPPLY)

MAX FL: 42000B

REMARKS
    THIS IS A BATCH-ONLY PROCEDURE. THE JOB CARD MUST SPECIFY
    MT1. THE PROCEDURE WILL SUPPLY THE LABEL CARD.

ERROR MESSAGES
    NO PROGRAM REQUESTED
        PARAMETER 'PGM' WAS OMITTED.

    PGMTAPE REQUIRES A TAPE AND MUST BE RUN FROM BATCH
        USER TRIED TO EXECUTE PGMTAPE FROM INTERCOM.

    UNKNOWN LIBRARY (<LIB>)
        INDICATED LIBRARY NAME IS NOT SUPPORTED.

EXAMPLE
    GET SOURCE PROGRAM FOR PROGRAM 'CMPINV' IN LIBRARY 'NSRDC':

        JOBNAME,MT1.
        CHARGE,....
        BEGIN,PGMTAPE,,,CMPINV,FILE.

    LFN 'FILE' CONTAINS A COMPILE FILE COPY OF 'CMPINV'.

AUTHOR
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DATE WRITTEN: 08/24/77

DATE(S) REVISED

PROCEDURE 'PM'

PURPOSE
    CREATE CERTAIN PRINT MESSAGE (PM) RECORDS

FUNCTIONAL CATEGORY: J4

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PM,,FC,OUTPUT,PM1,PM2,PM3,PM4,PM5,PM6.

DESCRIPTION OF PARAMETERS
    FC   - FORMS CODE
                OMITTED - PM RESTORE PRINTER
                1T   - PM 1-PART NARROW UNLINED PAPER
                'OTHER' - PM PM1 PM2 PM3 PM4 PM5 PM6
                          (USER MAY CREATE A MESSAGE OF UP TO
                          6 WORDS (30 CHARACTERS MAX)
    OUTPUT   - LISTABLE OUTPUT
    PM1-PM6 - UP TO 6 WORDS FOR USER-SPECIFIED PM MESSAGE
              (USED ONLY WHEN FC=OTHER)

DEFAULT BEGIN STATEMENT
    BEGIN,PM,,,OUTPUT.

MAX FL: 6000B

REMARKS
    BE SURE 'BEGIN,PM,,,OUTPUT.' HAS BEEN EXECUTED TO RESTORE
    PRINTER BEFORE ROUTING OUTPUT TO BE PRINTED.

    PM MESSAGES ARE IGNORED AT CENTRAL SITE. USE FC= ON ROUTE
    COMMAND.

AUTHOR
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DATE WRITTEN: 07/30/76

DATE(S) REVISED
    11/19/76 - ADD 'OTHER' OPTION

PROCEDURE 'PROADD'

PURPOSE
    ADD ONE PROCEDURE TO A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PROADD,,ID,NEW,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
    ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
                (PFN IS 'PROFILS')
    NEW   - FILE CONTAINING NEW NAMED PROCEDURE
                (MAY NOT BE FILE 'INPUT')
    AC   - AC FOR CATALOG (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
    PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES
    ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF
    ONE AND ONLY ONE SCOPE LOGICAL RECORD.

    ALL EMPTY RECORDS ARE REMOVED.

    THE LOWEST CYCLE IS PURGED, IF POSSIBLE. AT LEAST 2
    CYCLES ARE ALWAYS RETAINED.

AUTHOR
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DATE WRITTEN: 05/28/76

DATE(S) REVISED

PROCEDURE 'PROALL'

PURPOSE
    LIST PROCEDURE NAMES, PROCEDURE HEADERS AND THE PROCEDURES
    IN A SEQUENTIAL PROCEDURE FILE (COMBINES PRONAM, PROHDR
    AND PROLIST)

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PROALL,,ID,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
    ID   - ID UNDER WHICH THE PROCEDURE FILE IS CATALOGED
               (PFN IS 'PROFILS')
    OUTPUT   - LISTABLE OUTPUT
    LEFT   - OMITTED   - PRINT LEFT-JUSTIFIED ON PAGE
               NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 360008

REMARKS
    A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD
    'PROFILS' AND THE SPECIFIED ID. A BANNER PAGE WITH THE
    WORD 'END' FOLLOWS THE LIST.

AUTHOR
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DATE WRITTEN: 06/02/76

DATE(S) REVISED
    02/10/77 - ADD PARAMETER 'LEFT'

PROCEDURE 'PRODELE'

PURPOSE
    DELETE ONE PROCEDURE FROM A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PRODELE,,ID,PROCED,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
    ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
                (PFN IS 'PROFILS')
    PROCED   - PROCEDURE TO BE DELETED
    AC   - AC FOR CATALOG (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
    PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES
    ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF
    ONE AND ONLY ONE SCOPE LOGICAL RECORD.

    ALL EMPTY RECORDS ARE REMOVED.

    THE LOWEST CYCLE IS PURGED, IF POSSIBLE. AT LEAST 2
    CYCLES ARE ALWAYS RETAINED.

AUTHOR
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DATE WRITTEN: 05/28/76

DATE(S) REVISED

PROCEDURE 'PRODOC'

PURPOSE
    LIST DOCUMENTATION FOR PROCEDURES PROADD, PROALL, PRODELE,
    PRODOC, PROGET, PROHDR, PROLIST, PRONAM, PROREPL

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PRODOC,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
    OUTPUT - LISTABLE OUTPUT
    LEFT   - OMITTED   - PRINT LEFT-JUSTIFIED ON PAGE
              NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
    BEGIN,PRODOC,,OUTPUT.

MAX FL: 25000B

REMARKS
    A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD
    'PRODOC'. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE
    LIST.

AUTHOR
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DATE WRITTEN: 06/02/76

DATE(S) REVISED
    02/10/77 - ADD PARAMETER 'LEFT'

PROCEDURE 'PROGET'

PURPOSE
    GET (EXTRACT) ONE PROCEDURE FROM A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDUPE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PROGET,,ID,PROCED,LFN,PW1,PW2.

DESCRIPTION OF PARAMETERS
    ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
                  (PFN IS 'PROFILS')
    PROCED - NAME OF DESIRED PROCEDURE
    LFN   - NAME OF FILE TO CONTAIN 'PROCED'
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
    PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES
    ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF
    ONE AND ONLY ONE SCOPE LOGICAL RECORD.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED
    02/04/77 - ADD PW1 AND PW2

PROCEDURE 'PROGRAM'

PURPOSE
    EXECUTE A CATALOGED PROGRAM (NOT IN A LIBRARY)

FUNCTIONAL CATEGORY: Q3

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PROGRAM,,PFN,ID,PARAMS.

DESCRIPTION OF PARAMETERS
    PFN   - 1-7 CHARACTER PERMANENT FILE NAME OF
              THE PROGRAM
    ID   - ID UNDER WHICH IT IS CATALOGED
              (DEFAULT: SYSTEM PUBLIC ACCESS ID)
    PARAMS - UP TO 18 PARAMETERS FOR THE PROGRAM

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS UPON PROGRAM BEING EXECUTED

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - NSRDC CODE 1892.2

DATE WRITTEN: 09/14/76

DATE(S) REVISED

PROCEDURE 'PROHDR'

PURPOSE
    LIST PROCEDURE HEADERS IN A PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PROHDR,,ID,OUTPUT.

DESCRIPTION OF PARAMETERS
    ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
                (PFN IS 'PROFILS')
    OUTPUT   - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
    PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES
    ARRANGED IN ALPHABETICAL ORDER.   EACH PROCEDURE CONSISTS OF
    ONE AND ONLY ONE SCOPE LOGICAL RECORD.

    ALL EMPTY RECORDS ARE FLAGGED IN THE LIST.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED

PROCEDURE 'PROLIST'

PURPOSE
   LIST PROCEDURE(S) IN A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,PROLIST,,ID,OUTPUT,PROCED.

DESCRIPTION OF PARAMETERS
   ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
              (PFN IS 'PROFILS')
   OUTPUT   - LISTABLE OUTPUT
   PROCED   - NAME OF PROCEDURE TO BE LISTED
              (IF OMITTED OR 'ALL', ALL PROCEDURES ARE LISTED)

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
   PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES
   ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF
   ONE AND ONLY ONE SCOPE LOGICAL RECORD.

   ALL EMPTY RECORDS ARE FLAGGED IN THE LIST.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED

PROCEDURE 'PRONAM'

PURPOSE
   LIST NAMES OF PROCEDURES IN A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDUPE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,PRONAM,,ID,OUTPUT,FULL.

DESCRIPTION OF PARAMETERS
   ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
             (PFN IS 'PROFILS')
   OUTPUT - LISTABLE OUTPUT
   FULL   - IF OMITTED, A FULL LIST WITH HEADINGS IS PRINTED.
             IF ANYTHING IS SPECIFIED, A QUICK, SINGLE-COLUMN
             LIST, WITHOUT HEADINGS, IS PROVIDED. THIS MAY BE
             MORE USEFUL AT A TELETYPE.

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
   PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES
   ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF
   ONE AND ONLY ONE SCOPE LOGICAL RECORD.

   ALL EMPTY RECORDS ARE FLAGGED IN THE LIST.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED

PROCEDURE 'PROREPL'

PURPOSE
    REPLACE ONE PROCEDURE IN A SEQUENTIAL PROCEDURE FILE

FUNCTIONAL CATEGORIES: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,PROREPL,,ID,NEW,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
    ID   - ID UNDER WHICH PROCEDURE FILE IS CATALOGED
                (PFN IS 'PROFILS')
    NEW   - FILE CONTAINING NEW NAMED PROCEDURE
                (MAY NOT BE FILE 'INPUT')
    AC   - AC FOR CATALOG (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 36000B

REMARKS
    PROCEDURE FILE IS A SEQUENTIAL FILE OF NAMED PROCEDURES
    ARRANGED IN ALPHABETICAL ORDER. EACH PROCEDURE CONSISTS OF
    ONE AND ONLY ONE SCOPE LOGICAL RECORD.

    ALL EMPTY RECORDS ARE REMOVED.

    THE LOWEST CYCLE IS PURGED, IF POSSIBLE. AT LEAST 2
    CYCLES ARE ALWAYS RETAINED.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/28/76

DATE(S) REVISED

PROCEDURE 'RECADD'

PURPOSE
    ADD ONE OR MORE LOGICAL RECORDS TO A FILE

FUNCTIONAL CATEGORY: K1

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RECADD,,AFTER,NREC,NEW,PFN1,PFN2,ID,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
    AFTER   - RECORD NUMBER AFTER WHICH THE NEW RECORD(S) ARE TO
               BE ADDED
    NREC   - NUMBER OF NEW LOGICAL RECORDS TO BE ADDED
               (DEFAULT: 1)
    NEW   - LFN OF FILE CONTAINING NEW RECORD(S)
    PFN1,2   - 1-20 CHARACTER PERMANENT FILE NAME
               (IF PFN IS 1-10 CHARACTERS, USE PFN1, OMIT PFN2.
               IF PFN IS 11-20 CHARACTERS, PUT FIRST 10 IN PFN1
               AND THE REST IN PFN2.)
    ID   - ID UNDER WHICH FILE IS CATALOGED
    AC   - JOB ORDER NUMBER FOR NEW CATALOG
               (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
    THE LOWEST CYCLE OF FILE IS PURGED, IF POSSIBLE. AT LEAST 2
    CYCLES ARE ALWAYS RETAINED.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: MID-1975

DATE(S) REVISED

PROCEDURE 'RECDELE'

PURPOSE
    DELETE ONE OR MORE LOGICAL RECORDS FROM A FILE

FUNCTIONAL CATEGORY: K1

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RECDELE,,REC,NREC,PFN1,PFN2,ID,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
    REC   - RECORD NUMBER OF FIRST/ONLY LOCIGAL RECORD TO BE
               DELETED
    NREC   - NUMBER OF LOGICAL RECORDS TO BE DELETED
               (DEFAULT: 1)
    PFN1,2   - 1-20 CHARACTER PERMANENT FILE NAME
               (IF PFN IS 1-10 CHARACTERS, USE PFN1, OMIT PFN2.
               IF PFN IS 11-20 CHARACTERS, PUT FIRST 10 IN PFN1
               AND THE REST IN PFN2.)
    ID   - ID UNDER WHICH FILE IS CATALOGED
    AC   - JOB ORDER NUMBER FOR NEW CATALOG
               (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
    THE LOWEST CYCLE OF FILE IS PURGED, IF POSSIBLE. AT LEAST 2
    CYCLES ARE ALWAYS RETAINED.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: MID-1975

DATE(S) REVISED

PROCEDURE 'RECDOC'

PURPOSE
    LIST DOCUMENTATION FOR PROCEDURES RECADD, RECDELE, RECDOC,
    RECGET, RECREPL

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RECDOC,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
    OUTPUT   - LISTABLE OUTPUT
    LEFT   - OMITTED   - PRINT LEFT-JUSTIFIED ON PAGE
               NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
    BEGIN,RECDOC,,OUTPUT.

MAX FL: 25000B

REMARKS
    A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD
    'RECDOC'. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE
    LIST.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/10/77

DATE(S) REVISED

PROCEDURE 'RECGET'

PURPOSE
    EXTRACT ONE OR MORE LOGICAL RECORDS FROM A FILE

FUNCTIONAL CATEGORY: K1

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RECGET,,REC,NREC,PFN1,PFN2,ID.

DESCRIPTION OF PARAMETERS
    REC   - RECORD NUMBER OF FIRST/ONLY LOCIGAL RECORD TO BE
               EXTRACTED
    NREC   - NUMBER OF LOGICAL RECORDS TO BE EXTRACTED
               (DEFAULT: 1)
    PFN1,2   - 1-20 CHARACTER PERMANENT FILE NAME
               (IF PFN IS 1-10 CHARACTERS, USE PFN1, OMIT PFN2.
               IF PFN IS 11-20 CHARACTERS, PUT FIRST 10 IN PFN1
               AND THE REST IN PFN2.)
    IO   - IO UNDER WHICH FILE IS CATALOGED

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
    THE EXTRACTED RECORD(S) WILL BE ON A FILE WITH LFN OF R
    FOLLOWED BY THE VALUE OF REC (E.G., BEGIN,RECGET,,8,....
    WILL CREATE FILE R8. THIS FILE MAY BE CATALOGED. IT IS NOT
    REWOUND AT THE END OF THE PROCEDURE.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: MID-1975

DATE(S) REVISED

PROCEDURE 'RECREPL'

PURPOSE
   REPLACE ONE OR MORE LOGICAL RECORDS IN A FILE

FUNCTIONAL CATEGORY: K1

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,RECREPL,,REC,NREC,NEW,PFN1,PFN2,ID,AC,PW1,PW2.

DESCRIPTION OF PARAMETERS
   REC   - RECORD NUMBER OF FIRST/ONLY LOGIGAL RECORD TO BE
              REPLACED
   NREC   - NUMBER OF LOGICAL RECORDS TO BE REPLACED
              (DEFAULT: 1)
   NEW   - LFN OF FILE CONTAINING NEW RECORD(S)
   PFN1,2   - 1-20 CHARACTER PERMANENT FILE NAME
              (IF PFN IS 1-10 CHARACTERS, USE PFN1, OMIT PFN2.
              IF PFN IS 11-20 CHARACTERS, PUT FIRST 10 IN PFN1
              AND THE REST IN PFN2.)
   ID   - ID UNDER WHICH FILE IS CATALOGED
   AC   - JOB ORDER NUMBER FOR NEW CATALOG
              (MAY BE OMITTED)
   PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL: 20000B

REMARKS
   THE LOWEST CYCLE OF FILE IS PURGED, IF POSSIBLE. AT LEAST 2
   CYCLES ARE ALWAYS RETAINED.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: MID-1975

DATE(S) REVISED

PROCEDURE 'RENAMAC'

PURPOSE
    RENAME AC FIELD ON PERMANENT FILES

FUNCTIONAL CATEGORY: Q4

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RENAMAC,,OLD,NEW,ID,OUTPUT,PW1,PW2,PW3,PW4,PW5,TYPE.

DESCRIPTION OF PARAMETERS
    OLD   - OLD AC (MUST BE SPECIFIED)
    NEW   - NEW AC (MUST BE SPECIFIED)
    ID   - ID OF FILES TO BE RENAMED
              (MUST BE SPECIFIED IF TYPE=DYNAMIC)
    OUTPUT - LISTABLE OUTPUT
    PW1-PW5 - UP TO 5 PASSWORDS FOR ALL FILES TO BE RENAMED
              (ONLY TK, RD AND CN PASSWORDS ARE REQUIRED)
    TYPE   - OMITTED OR DYNAMIC - DYNAMIC AUDIT USED
              STATIC   - STATIC AUDIT (USUALLY END OF
                                  PREVIOUS DAY) USED

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES (EXCEPT TYPE=DYNAMIC)

MAX FL: 35000B

REMARKS
    1) PROCEDURE WILL AUDIT SPECIFIED ID AND OLD AC. ALL THESE
       FILES WILL BE RENAMED.
    2) MOST PF ATTACH AND RENAME ERRORS WILL NOT BE FATAL.
       INVALID TK, RD PASSWORDS WILL ABORT THE PROCEDURE.
    3) ALTHOUGH STATIC AUDIT DOES NOT REQUIRE ID, IT SHOULD
       BE USED TO SHORTEN THE STATIC AUDIT SEARCH.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 06/01/75

DATE(S) REVISED
    04/18/77 - MODIFY FOR NOS/BE SHORT AUDIT
    09/30/77 - ADD TYPE PARAMETER

PROCEDURE 'RUNBAS'

PURPOSE
    COMPILE AND EXECUTE BASIC PROGRAM (SIMILAR TO EDITOR RUN,BAS
    FOR USE OUTSIDE OF EDITOR)

FUNCTIONAL CATEGORY: L2

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RUNBAS,,F,OUT.

DESCRIPTION OF PARAMETERS
    F   - INPUT SOURCE FILE (REWOUND BEFORE COMPILE)
    OUT - LISTABLE OUTPUT (NOT REWOUND)
          (IF OUT=0, NO LIST IS PROVIDED, ERROR MESSAGES PRINT
          AT TERMINAL)

DEFAULT BEGIN STATEMENT
    BEGIN,RUNBAS,,*,OUT.
        (* - NO DEFAULT)

MAX FL: 40000B

REMARKS
    INPUT AND OUTPUT ARE CONNECTED BEFORE THE BASIC COMPILER
    IS CALLED.

ERROR MESSAGES
    NO INPUT FILE.
        USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 08/25/77

DATE(S) REVISED

PROCEDURE 'RUNFTN'

PURPOSE
    COMPILE AND EXECUTE FTN PROGRAM (SIMILAR TO EDITOR RUN,FTN
    FOR USE OUTSIDE OF EDITOR)

FUNCTIONAL CATEGORY: L2

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RUNFTN,,F,LGO.

DESCRIPTION OF PARAMETERS
    F   - FILE TO BE COMPILED
               (MUST BE SPECIFIED - AVOID LFN 'INPUT')
    LGO   - FILE TO CONTAIN RELOCATABLE OBJECT MODULE

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 46000B

REMARKS
    AFTER COMPLETION, INPUT AND OUTPUT ARE CONNECTED.

ERROR MESSAGES
    NO INPUT FILE.
        USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
    SHARON E GOOD - OTNSRDC CODE 1892.1

DATE WRITTEN: 07/27/77

DATE(S) REVISED

PROCEDURE 'RUNMNF'

PURPOSE
    COMPILE AND EXECUTE MNF PROGRAM

FUNCTIONAL CATEGORY: L2

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RUNMNF,,F.

DESCRIPTION OF PARAMETER
    F   - FILE TO BE COMPILED
             (MUST BE SPECIFIED - AVOID LFN 'INPUT')

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 53000B MINIMUM (NO EFL NEEDED)

.REMARKS
    AFTER COMPLETION, INPUT AND OUTPUT ARE CONNECTED.

ERROR MESSAGES
    NO INPUT FILE.
        USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/29/77

DATE(S) REVISED
    08/24/77

PROCEDURE 'RUNSEQ'

PURPOSE
    COMPILE AND EXECUTE FTN,SEQ PROGRAM

FUNCTIONAL CATEGORY: L2

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RUNSEQ,,F,LGO.

DESCRIPTION OF PARAMETERS
    F   - FILE TO BE COMPILED
               (MUST BE SPECIFIED - AVOID LFN 'INPUT')
    LGO   - FILE TO CONTAIN RELOCATABLE OBJECT MODULE

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 40000B

REMARKS
    AFTER COMPLETION, INPUT AND OUTPUT ARE CONNECTED.

ERROR MESSAGES
    NO INPUT FILE.
        USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
    SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 07/27/77

DATE(S) REVISED

PROCEDURE 'RUNTS'

PURPOSE
    COMPILE AND EXECUTE FTN,TS PROGRAM

FUNCTIONAL CATEGORY: L2

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,RUNTS,,F,LGO.

DESCRIPTION OF PARAMETERS
    F   - FILE TO BE COMPILED
                 (MUST BE SPECIFIED - AVOID LFN 'INPUT')
    LGO   - FILE TO CONTAIN RELOCATABLE OBJECT MODULE

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 40000B

REMARKS
    AFTER COMPLETION, INPUT AND OUTPUT ARE CONNECTED.

ERROR MESSAGES
    NO INPUT FILE.
        USER DID NOT SPECIFY AN INPUT FILE (PARAMETER 'F')

AUTHOR
    SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 07/27/77

DATE(S) REVISED

PROCEDURE 'SELDUMP'

PURPOSE
   CREATE BACKUP DUMP TAPE OF THE USER PERMANENT FILE OF AN
   ACCOUNT NUMBER

FUNCTIONAL CATEGORY: Q4   K3

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,SELDUMP,,AC,VSN1,VSN2.

DESCRIPTION OF PARAMETERS
   AC   - MUST MATCH ACCOUNT FIELD OF CHARGE CARD
   VSN1   - TAPE DIEBOLD OR SLOT NUMBER
               (6 CHARACTERS OR LESS)
   VSN2   - EXTERNAL STICKER LABEL
               (SLOT TAPES ONLY)

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL:

REMARKS
   NONE

EXAMPLE
   CXXXYYY,MT1,....
   CHARGE,CXXX,1234567890,....
   BEGIN,SELDUMP,,1234567890,CA9999.
   "   6/7/8/9   EOF

AUTHOR
   SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: EARLY 1975

DATE(S) REVISED

PROCEDURE 'SELLOAD'

PURPOSE
    RESTORE SELECTED ROUTINES FROM A BACKUP DUMPF TAPE

FUNCTIONAL CATEGORIES: Q4 K4

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,SELLOAD,,VSN1,VSN2.

DESCRIPTION OF PARAMETERS
    VSN1   - TAPE DIEBOLD OR SLOT NUMBER
                 (6 CHARACTERS OR LESS)
    VSN2   - EXTERNAL STICKER LABEL
                 (SLOT TAPES ONLY)

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL:

REMARKS
    NONE

DATA CARDS
    ONE CARD PER FILE, CONTAINING ONE OF THE FOLLOWING:
        PF=PFNAME,ID=CXXX,CY=NN.   TO RESTORE CYCLE NN
        PF=PFNAME,ID=CXXX.   TO RESTORE ALL CYCLES

EXAMPLE
    CXXXYYY,MT1,....
    CHARGE,CXXX,1234567890,....
    BEGIN,SELLOAD,,CA9999.
    *   7/8/9   EOR
    PF=PFN1,ID=CXXX.   ALL CYCLES
    PF=PFN2,ID=CXXX,CY=4.   ONLY CYCLE 4
      ...
    " 6/7/8/9   EOF

AUTHOR
    SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: EARLY 1975

DATE(S) REVISED

PROCEDURE 'SEND'

PURPOSE
    SEND MESSAGES TO AN INTERCOM USER WHO IS NOT LOGGED IN;
    LIST MESSAGES

FUNCTIONAL CATEGORY: Q0

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,SEND,,FCN,<PARAMETERS>.

DESCRIPTION OF PARAMETERS
    FCN   - ONE OF THE FOLLOWING:
                      A OR ANY   - CHECK FOR ANY MESSAGES
                      C OR CREATE   - CREATE A MAILBOX
                      E OR EXPLAIN - TYPE EXPLANATION OF PROCEDURE
                      L OR LIST   - LIST CONTENTS OF MAILBOX
                      S OR SEND   - SEND TO ANOTHER MAILBOX
                                      (DEFAULT)
    <PARAMETERS> - NOT USED BY FUNCTIONS ANY, CREATE OR EXPLAIN.
                   OPTIONAL FOR LIST AND SEND (SEE FUNCTION
                   DESCRIPTIONS BELOW)

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 35000B

REMARKS
    IN ORDER TO RECEIVE MESSAGES, THE USER MUST HAVE A
    PERMANENT FILE NAMED 'SENDFIL', HAVING NO PASSWORDS.

FUNCTIONS
    ANY
        BEGIN,SEND,,ANY.
            THIS FUNCTION CHECKS TO SEE IF THERE ARE ANY MESSAGES.

    CREATE
        BEGIN,SEND,,CREATE.
            CREATE A PERMANENT FILE WITH PFN OF 'SENDFIL'.
            THIS IS REQUIRED BEFORE A USER CAN RECEIVE MESSAGES.

LIST
    BEGIN,SEND,,LIST,OUTPUT.
        LIST ANY MESSAGES ON FILE 'OUTPUT' (PARAMETER MAY BE
        OMITTED. IF 'OUTPUT' IS NOT CONNECTED, THE USER IS
        INFORMED THAT THE FILE WAS WRITTEN.
        IN LISTING, IF THE FIRST CHARACTER OF A LINE IS 1,
        SPACE, 0, - OR +, IT IS TREATED AS CARRIAGE CONTROL.
        ALL OTHER LINES ARE SHIFTED ONE PLACE TO THE RIGHT
        BEFORE LISTING.
        AFTER LISTING, THE USER IS ASKED WHETHER THE MESSAGES
        SHOULD BE SCRATCHED. THE USER MUST RESPOND Y OR YES
        (FOR YES) OR ANYTHING ELSE (FOR NO).

SEND
    BEGIN,SEND,,SEND,TO,INPUT.
    BEGIN,SEND,,,TO,INPUT.
        SEND MESSAGES TO USER 'TO' (4-CHARACTER USER ID OR U
        FOR USERSERVIC). IF OMITTED OR INVALID, THE USER IS
        PROMPTED FOR A 4-CHARACTER USER ID (MUST START WITH A,
        C, P, R, S) OR USERSERVIC (MAY BE ABBREVIATED U OR
        USER).
        IF THE NEXT PARAMETER (INPUT) IS OMITTED (OR 'INPUT'),
        THE MESSAGES ARE READ FROM THE TERMINAL. IF THE
        PARAMETER IS GIVEN AND IS NOT 'INPUT', THE LOCAL FILE
        OF THAT NAME IS REWOUND AND COPIED THRU END-OF-
        INFORMATION. A MESSAGE IS TYPED STATING THAT THE FILE
        IS BEING READ.

        MESSAGES ARE UP TO 80 CHARACTERS LONG; THE FIRST OF
        WHICH MAY BE USED FOR CARRIAGE CONTROL.

MESSAGES
    GENERAL
        INVALID FUNCTION - MUST BE ONE OF
        ANY - CREATE - EXPLAIN - LIST - SEND
            FIRST PARAMETER OF EXECUTE STATEMENT WAS INVALID

    FUNCTION ANY--
        SOMEONE IS SENDING YOU A MESSAGE
            CANNOT ACCESS YOUR SENDFIL UNTIL SENDER COMPLETES THE
            MESSAGE

        UNEXPECTED RETURN CODE (NNNB) FROM ATTACH
        PLEASE TRY AGAIN LATER
            IF SAME ERROR OCCURS AGAIN, SEE CCRM, 3-7, AND/OR CALL
            USER SERVICES

        YOU DO NOT HAVE A SENDFIL
            TO CREATE ONE, USE   BEGIN,SEND,,CREATE.

        YOU HAVE NO MESSAGES

        YOU HAVE SOME MESSAGES
            TO LIST THEM, USE   BEGIN,SEND,,LIST,OUTPUT.

```
FUNCTION CREATE--
    CT ID=    XXXX PFN=SENDFIL
    CT CY= NNN  00000000 PRUS $0000.00 /DAY
        CREATE WAS SUCCESSFUL

    ERROR DURING CATALOG
    PLEASE TRY AGAIN LATER
        COULD NOT CATALOG

    ERROR TRYING TO GET PF SPACE
    PLEASE TRY AGAIN LATER
        COULD NOT GET PERMANENT FILE SPACE

    YOU ALREADY HAVE A SENDFIL
        CANNOT CREATE A SECOND SENDFIL

FUNCTION LIST--
    EX ID=    XXXX PFN=SENDFIL        .
    EX CY= NNN  00000000 PRUS  $0000.00 /DAY
        SENDFIL CONTENTS WERE SUCCESSFULLY SCRATCHED

    MESSAGES WRITTEN ON FILE <LFN>
        OUTPUT FILE <LFN> IS NOT CONNECTED AND CONTAINS
        LISTING OF MESSAGES.

    SHALL I SCRATCH THE MESSAGES (Y OR N) --
        ENTER Y OR YES TO CLEAR THE MESSAGES.
        ENTER ANYTHING ELSE TO RETAIN THEM.

    SORRY - SOMEONE IS SENDING YOU A MESSAGE
    PLEASE TRY AGAIN LATER
        CANNOT LIST MESSAGES WHILE SOMEONE IS SENDING YOU ONE

    UNEXPECTED RETURN CODE (NNNB) FROM ATTACH
    PLEASE TRY AGAIN LATER
        ERROR WHILE ATTACHING YOUR SENDFIL.  IF IT HAPPENS
        AGAIN, SEE CCRM, 3-7, AND/OR CALL USER SERVICES.

FUNCTION SEND--
    CALL AGAIN
        RESPONSE TO USER ENTRY OF 'QUIT'

    ENTER YOUR MESSAGES - END WITH END
        BEGIN ENTERING UP-TO-80-CHARACTER MESSAGES.  END WITH
        SEPARATE LINE CONTAINING  END  AND NO OTHER NON-BLANK
        CHARACTERS.  THERE IS NO MORE PROMPTING UNTIL END IS
        ENCOUNTERED.

    FROM: YOUR-USER-ID
    TO  : TO-USER-ID
        SENDFIL WAS SUCCESSFULLY ATTACHED
```

INVALID.   MUST BE USERSERVIC OR 4 CHARACTERS STARTING
WITH A, C, P, R OR S.
PLEASE RE-ENTER IT (OR 'QUIT' TO STOP)-
    ENTER ONE OF THE FOLLOWING:
        4-CHARACTER USER-ID (START WITH A/C/P/R/S)
        USERSERVIC (OR U OR USER)
        QUIT

READING FROM FILE XXXXXXX
    MESSAGES ARE BEING READ FROM INDICATED FILE

SORRY - I COULDN'T SEND YOUR MESSAGES
PLEASE TRY AGAIN LATER
    EXTEND OF SENDFIL FAILED

SORRY, XXXX IN NOT ACCESSIBLE
    SPECIFIED USER'S SENDFIL IS BEING USED BY SOMEONE ELSE

SORRY, XXXX CANNOT RECEIVE MESSAGES
    SPECIFIED USER DOES NOT HAVE A FILE CALLED SENDFIL

TO WHOM (4-CHARACTER USER- ID -OR- USERSERVIC)-
    USER-ID ON EXECUTE CARD WAS OMITTED OR INVALID. ENTER
    IT NOW.

... TRUNCATED
    ONLY FIRST 80 CHARACTERS READ.   LISTED CHARACTERS
    IGNORED.

YOUR MESSAGE HAS BEEN SENT
    THE SENDFIL WAS SUCCESSFULLY EXTENDED

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/20/77

DATE(S) REVISED

PROCEDURE 'STRUCT'

PURPOSE
    GENERATE CROSS-REFERENCE LISTS AND TREE STRUCTURE FROM
    BINARY RELOCATABLE OBJECT FILE

FUNCTIONAL CATEGORY: Q6

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,STRUCT,,LFN,OUTPUT,RFL.

DESCRIPTION OF PARAMETERS
    LFN   - RELOCATABLE FILE TO BE PROCESSED (DEFAULT: LGO)
    OUTPUT   - LISTABLE OUTPUT
    RFL   - FL NEEDED FOR EXECUTION OF STRUCTURE PROGRAM
                (DEFAULT OF 30000 IS SUFFICIENT FOR MOST FILES)
                (USER'S FL IS RESTORED TO THE SYSTEM DEFAULT)

DEFAULT BEGIN STATEMENT
    BEGIN,STRUCT,,LGO,OUTPUT,30000.

MAX FL: 30000B (OR AS USER SPECIFIES IN THIRD PARAMETER)

REMARKS
    THIS PROCEDURE USES A PROGRAM WRITTEN AT THE CONSTRUCTION
    ENGINEERING RESEARCH LABORATORY (CERL), COMPUTER SERVICES
    BRANCH.

ERROR MESSAGES
    ABNORMAL TERMINATION
    IF NO OTHER ERRORS LISTED, INCREASE RFL
        USER-SPECIFIED (OR DEFAULT) RFL WAS NOT SUFFICIENT.
        THE PROCEDURE ENDS WITH 'REVERT,ABORT'.

    <OUTPUT> CONTAINS STRUCTURE OF FILE <LFN>
        PROCEDURE WAS SUCCESSFUL

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 07/06/77

DATE(S) REVISED

PROCEDURE 'S2K260'

PURPOSE
    ATTACH FILES FOR S2000 (VERSION 2.60) NATURAL LANGUAGE,
    FORTRAN, OR COBOL PROCEDURAL LANGUAGE INTERFACE.

FUNCTIONAL CATEGORY: Q3

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE.

USAGE
    BEGIN,S2K260,,LANG.

DESCRIPTION OF PARAMETER
    LANG   - COB   FOR COBOL LANGUAGE INTERFACE ROUTINE
            - FOR   FOR FORTRAN LANGUAGE INTERFACE ROUTINE
            - OMITTED   NATURAL LANGUAGE

DEFAULT BEGIN STATEMENT
    BEGIN,S2K260.   USE NATURAL LANGUAGE ONLY

MAX FL: 15000B

REMARKS
    THIS PROCEDURE ATTACHES THE FILES FOR SYSTEM 2000
    VERSION 2.60. DO NOT USE BEFORE READING THE NEWSLETTER
    FROM MRI REGARDING THE FEATURES AND DIFFERENCES IN THIS
    VERSION OF SYSTEM 2000 (APRIL 1977).

EXAMPLES.
    FOR NATURAL LANGUAGE: BEGIN,S2K260.
                            S2K260,,,,.   EXECUTE S2K

    FOR COBOL INTERFACE: BEGIN,S2K260,,COB.
                            PLICOB,,,,.   PRECOMPILER
                            COPYR,PLILGO,LGO,2.
                            COBOL,I=TAPE3,,,,.
                            FTN,I=TAPE3.   REQUIRED
                            COPYF,PLILGO,LGO.
                            LGO.   EXECUTE

    FOR FORTRAN INTERFACE: BEGIN,S2K260,,FOR.
                            PLIFOR,,,,.   PRECOMPILER
                            COPYR,PLIGO,LGO,2.
                            FTN,I=TAPE3,,,,.
                            COPYF,PLILGO,LGO.
                            LGO.   EXECUTE

AUTHOR.
    SHARON E GOOD - DTNSRDC CODE 1892.1
    BRUCE D BLACK - DTNSRDC CODE 1892.1 (CDC)

DATE WRITTEN: 06/20/77

PROCEDURE 'S2000'

PURPOSE
    ATTACH OR RETURN FILES FOR S2000 NATURAL LANGUAGE, FTN OR
    COBOL PROCEDURAL LANGUAGE INTERFACE FROM PROPER DEVICE.

FUNCTIONAL CATEGORY: Q3

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,S2000,,LANG.

DESCRIPTION OF PARAMETER
    LANG   - COB   FOR COBOL LANGUAGE INTERFACE ROUTINE
              - FOR   FOR FORTRAN LANGUAGE INTERFACE ROUTINE
              - OMITTED   NATURAL LANGUAGE
              - RETURN   RETURN SYSTEM 2000 FILES

DEFAULT BEGIN STATEMENT
    BEGIN,S2000.   USE NATURAL LANGUAGE ONLY

MAX FL: 15000B

REMARKS
    USER MUST SUPPLY ACTUAL CALLS TO SYSTEM 2000 INTERFACE.

EXAMPLES
    FOR NATURAL LANGUAGE: BEGIN,S2000.
                              S2K240,....   EXECUTE S2K

    FOR COBOL INTERFACE: BEGIN,S2000,,COB.
                              PLICOB,....   PRECOMPILER
                              COPYR,PLILGO,LGO,2.
                              COBOL,I=TAPE3,....
                              FTN,I=TAPE3.   REQUIRED
                              COPYF,PLILGO,LGO.
                              LGO.   BEGIN EXECUTION

    FOR FORTRAN INTERFACE: BEGIN,S2000,,FOR.
                              PLIFOR,....   PRECOMPILER
                              COPYR,PLILGO,LGO,2.
                              FTN,I=TAPE3,....
                              COPYF,PLILGO,LGO.
                              LGO.

    TO RETURN FILES   : BEGIN,S2000,,RETURN.

AUTHOR
    SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 10/15/76

DATE(S) REVISED
    02/18/77 - ADD RETURN OPTION.
               ALLOW PROCEDURE TO BE EXECUTED MORE THAN ONCE.

PROCEDURE 'TIDBITS'

PURPOSE
    LIST FILE OF TIDBITS (HINTS ON IMPROVED COMPUTER USAGE)

FUNCTIONAL CATEGORY: 01

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,TIDBITS,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
    OUTPUT - LISTABLE OUTPUT
    LEFT   - OMITTED OR 'LEFT' - PRINT ON LEFT SIDE OF PAGE
              ANYTHING ELSE   - PRNT CENTERED ON WIDE PAPER

DEFAULT BEGIN STATEMENT
    BEGIN,TIDBITS,,OUTPUT,LEFT.

MAX FL: 32000B

REMARKS
    NONE

MESSAGES
    <OUTPUT> HAS TIDBITS
        INDICATES SUCCESSFUL COMPLETION (LEFT-JUSTIFIED PRINTOUT)

    <OUTPUT> HAS TIDBITS (CENTERED)
        INDICATES SUCCESSFUL COMPLETION (CENTERED PRINTOUT)

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 08/01/77

DATE(S) REVISED

PROCEDURE 'TRANPAK'

PURPOSE
   COPY CONTENTS FROM ONE DEVICE SET TO ANOTHER FOR BACKUP

FUNCTIONAL CATEGORY: K3

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,TRANPAK,,VSNF,FS,RDF,CNF,MDF,VSNT,TS.

DESCRIPTION OF PARAMETERS
   VSNF   - VSN OF PACK COPIED FROM
   FS   - SETNAME COPIED FROM
   RDF   - USER READ PASSWORD INITIALIZED ON DUM FILE
   CNF   - USER CONTROL PASSWORD INITIALIZED ON DUM FILE
   MDF   - USER MODIFY PASSWORD INITIALIZED ON DUM FILE
   VSNT   - VSN OF PACK TO COPY TO
   TS   - SETNAME TO COPY TO

DEFAULT BEGIN STATEMENT
   NO MEANINGFUL DEFAULT VALUES

MAX FL:

REMARKS
   OUTPUT IS A LIST OF FILES MOVED WITH ID AND CYCLE
   OF EACH.

EXAMPLE
   BEGIN,TRANPAK,,DVS299,SG1PK,RDPW,CNPW,MDPW,DVS476,SG2PK.

AUTHOR
   SHARON E GOOD - DTNSRDC CODE 1892.1

DATE WRITTEN: 1976

DATE(S) REVISED

PROCEDURE 'UPDADD'

PURPOSE
    ADD ONE DECK TO AN UPDATE LIBRARY

FUNCTIONAL CATEGORIES: K3   Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,UPDADD,,LIB,ID,PROG,AFTER,LFN,AC,PW1,PW2,C,S.

DESCRIPTION OF PARAMETERS
    LIB   - FIRST PART OF PFN
                (FULL PFN IS LIB_PL)
    ID   - ID UNDER WHICH IT IS CATALOGED
    PROG   - DECK NAME OF ROUTINE TO BE ADDED
                ('*DECK PROG' IS GENERATED AUTOMATICALLY)
    AFTER   - DECK NAME IT IS TO FOLLOW
                (IF OMITTED, NEW DECK GOES AT END OF LIBRARY)
    LFN   - LFN OF FILE CONTAINING DECK TO BE ADDED
                (NO *DECK CARD)
    AC   - JOB ORDER NUMBER FOR CATALOG
                (MAY BE OMITTED)
    PW1,PW2   - PASSWORDS
    C   - COMPILE FILE (0 FOR NONE)
    S   - SOURCE FILE (0 FOR NONE)

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
    THE LOWEST CYCLE OF LIB_PL IS PURGED, IF POSSIBLE. AT LEAST
    2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/110/76

DATE(S) REVISED

PROCEDURE 'UPDDELE'

PURPOSE
    DELETE ONE DECK FROM AN UPDATE LIBRARY

FUNCTIONAL CATEGORIES: K3   Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,UPDDELE,,LIB,ID,PROG,AC,PW1,PW2,S.

DESCRIPTION OF PARAMETERS
    LIB   - FIRST PART OF PFN
                 (FULL PFN IS LIB_PL)
    ID   - ID UNDER WHICH IT IS CATALOGED
    PROG   - DECK NAME OF ROUTINE TO BE DELETED
                 ('*DECK PROG' IS GENERATED AUTOMATICALLY)
    AC   - JOB ORDER NUMBER FOR CATALOG
                 (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS
    S   - SOURCE FILE (0 FOR NONE)

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/10/76

DATE(S) REVISED

PROCEDURE 'UPDDOC'

PURPOSE
   LIST DOCUMENTATION FOR PROCEDURES UPDADD, UPDDELE, UPDDOC,
   UPDGET, UPDLIST, UPDREPL

FUNCTIONAL CATEGORIES: 01

LOCATION OF PROCEDURE
   SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
   BEGIN,UPDDOC,,OUTPUT,LEFT.

DESCRIPTION OF PARAMETERS
   OUTPUT - LISTABLE OUTPUT
   LEFT   - OMITTED   - PRINT LEFT-JUSTIFIED ON PAGE
            NON-BLANK - PRINT CENTERED ON WIDE PAGE

DEFAULT BEGIN STATEMENT
   BEGIN,UPDDOC,,OUTPUT.

MAX FL: 25000B

REMARKS
   A BANNER PAGE PRECEDES THE LIST AND CONTAINS THE WORD
   'UPDDOC'. A BANNER PAGE WITH THE WORD 'END' FOLLOWS THE
   LIST.

AUTHOR
   DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 02/10/77

DATE(S) REVISED

PROCEDURE 'UPDGET'

PURPOSE
    EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,C) AND,
    OPTIONALLY, ADD EDITOR SEQUENCING

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,UPDGET,,LIB,ID,DECK,COMPILE,C72,E,START,INCR,PW1,PW2.

DESCRIPTION OF PARAMETERS
    LIB   - 1-7 CHARACTERS: FIRST PART OF PFN
               (FULL PFN IS LIB_PL)
    ID   - ID UNDER WHICH IT IS CATALOGED
    DECK   - DECK NAME OF ROUTINE TO BE EXTRACTED
    COMPILE - COMPILE FILE (UPDATE,C=COMPILE)
               (WILL CONTAIN EXTRACTED DECK, UNLESS C72 USED)
    C72   - IF SPECIFIED, WILL CONTAIN 72-COLUMN COPY OF THE
               COMPILE FILE. THE COMPILE FILE IS NOT AVAILABLE
               TO THE USER.)
    E   - OMITTED - DO NOT ADD EDITOR SEQUENCING
               ANY WORD STARTING WITH 'E' - ADD EDITOR SEQUENCING
               (THIS PARAMETER IS EFFECTIVE ONLY IF PARAMETER
               'C72' IS SPECIFIED)
    START   - FIRST EDITOR SEQUENCE NUMBER (IF EDITOR SEQUENCING
               REQUESTED)   (DEFAULT: 20)
    INCR   - INCREMENT FOR EDITOR SEQUENCING (DEFAULT: 10)
               NOTE: DEFAULT START AND INCR WILL GIVE 10 TIMES
                     THE COMPILE FILE CARD NUMBERS IF THE DECK HAS
                     NO MODIFYING IDENTS.
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/10/76

DATE(S) REVISED
    07/13/76 - ADD EDITOR SEQUENCING OPTION
    02/04/77 - ADD PASSWORDS

PROCEDURE 'UPDGETS'

PURPOSE
    EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,S) AND,
    OPTIONALLY, ADD EDITOR SEQUENCING

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,UPDGETS,,LIB,ID,DECK,SOURCE,C72,E,START,INCR,PW1,PW2.

DESCRIPTION OF PARAMETERS
    LIB   - 1-7 CHARACTERS: FIRST PART OF PFN
              (FULL PFN IS LIB_PL)
    ID   - ID UNDER WHICH IT IS CATALOGED
    DECK   - DECK NAME OF ROUTINE TO BE EXTRACTED
    SOURCE - SOURCE FILE (UPDATE,S=SOURCE)
              (COMDECKS, IF ANY, INCLUDED)
              (WILL CONTAIN EXTRACTED DECK, UNLESS C72 USED)
    C72   - IF SPECIFIED, WILL CONTAIN 72-COLUMN COPY OF THE
              COMPILE FILE. THE COMPILE FILE IS NOT AVAILABLE
              TO THE USER.)
    E   - OMITTED - DO NOT ADD EDITOR SEQUENCING
              ANY WORD STARTING WITH 'E' - ADD EDITOR SEQUENCING
              (THIS PARAMETER IS EFFECTIVE ONLY IF PARAMETER
              'C72' IS SPECIFIED)
    START   - FIRST EDITOR SEQUENCE NUMBER (IF EDITOR SEQUENCING
              REQUESTED)   (DEFAULT: 20)
    INCR   - INCREMENT FOR EDITOR SEQUENCING (DEFAULT: 10)
              NOTE: DEFAULT START AND INCR WILL GIVE 10 TIMES
                    THE COMPILE FILE CARD NUMBERS IF THE DECK HAS
                    NO MODIFYING IDENTS.
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/13/77

DATE(S) REVISED

PROCEDURE 'UPDGETT'

PURPOSE
    EXTRACT ONE DECK FROM AN UPDATE LIBRARY (UPDATE,T) AND,
    OPTIONALLY, ADD EDITOR SEQUENCING

FUNCTIONAL CATEGORIES: K3 Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,UPDGETT,,LIB,ID,DECK,SOURCE,C72,E,START,INCR,PW1,PW2.

DESCRIPTION OF PARAMETERS
    LIB   - 1-7 CHARACTERS: FIRST PART OF PFN
                (FULL PFN IS LIB_PL)
    ID   - ID UNDER WHICH IT IS CATALOGED
    DECK   - DECK NAME OF ROUTINE TO BE EXTRACTED
    SOURCE   - SOURCE FILE (UPDATE,T=SOURCE)
                (NO COMDECKS INCLUDED)
                (WILL CONTAIN EXTRACTED DECK, UNLESS C72 USED)
    C72   - IF SPECIFIED, WILL CONTAIN 72-COLUMN COPY OF THE
                COMPILE FILE. THE COMPILE FILE IS NOT AVAILABLE
                TO THE USER.)
    E   - OMITTED - DO NOT ADD EDITOR SEQUENCING
                ANY WORD STARTING WITH 'E' - ADD EDITOR SEQUENCING
                (THIS PARAMETER IS EFFECTIVE ONLY IF PARAMETER
                'C72' IS SPECIFIED)
    START   - FIRST EDITOR SEQUENCE NUMBER (IF EDITOR SEQUENCING
                REQUESTED)   (DEFAULT: 20)
    INCR   - INCREMENT FOR EDITOR SEQUENCING (DEFAULT: 10)
                NOTE: DEFAULT START AND INCR WILL GIVE 10 TIMES
                      THE COMPILE FILE CARD NUMBERS IF THE DECK HAS
                      NO MODIFYING IDENTS.
    PW1,PW2 - PASSWORDS

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 05/13/77

DATE(S) REVISED

PROCEDURE 'UPDLIST'

PURPOSE
    LIST DECK/COMDECK NAMES IN UPDATE LIBRARY WITH COUNT OF
    RECORDS IN EACH DECK/COMDECK

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,UPDLIST,,LIB,ID,OUTPUT.

DESCRIPTION OF PARAMETERS
    LIB   - FIRST PART PF PFN
              (FULL PFN IS LIB_PL)
    ID   - ID UNDER WHICH IT IS CATALOGED
    OUTPUT - LISTABLE OUTPUT

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 42000B

REMARKS
    UPDATE IS RUN TO GET A SOURCE FILE. THEN PROGRAM 'DECK' ON
    UTILITY IS RUN AGAINST THE SOURCE FILE. THEREFORE, ANY
    IDENTS WILL NOT BE LISTED, AS THEY HAVE ALREADY BEEN
    PROCESSED BY UPDATE.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 04/12/76

DATE(S) REVISED
    04/23/76
    05/04/76
    05/25/76

PROCEDURE 'UPDREPL'

PURPOSE
    REPLACE ONE DECK IN AN UPDATE LIBRARY

FUNCTIONAL CATEGORIES: K3   Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,UPDREPL,,LIB,ID,PROG,AFTER,LFN,AC,PW1,PW2,C,S.

DESCRIPTION OF PARAMETERS
    LIB   - FIRST PART OF PFN
               (FULL PFN IS LIB_PL)
    ID   - ID UNDER WHICH IT IS CATALOGED
    PROG   - DECK NAME OF ROUTINE TO BE REPLACED
               ('*DECK PROG' IS GENERATED AUTOMATICALLY)
    AFTER   - DECK NAME IT IS TO FOLLOW
               (IF OMITTED, NEW DECK GOES AT END OF LIBRARY)
    LFN   - LFN OF FILE CONTAINING DECK TO BE REPLACED
               (NO *DECK CARD)
    AC   - JOB ORDER NUMBER FOR CATALOG
               (MAY BE OMITTED)
    PW1,PW2 - PASSWORDS
    C   - COMPILE FILE (0 FOR NONE)
    S   - SOURCE FILE (0 FOR NONE)

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: 420008

REMARKS
    THE LOWEST CYCLE OF LIB_PL IS PURGED, IF POSSIBLE. AT LEAST
    2 CYCLES ARE ALWAYS RETAINED.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 03/11/76

DATE(S) REVISED
    05/25/76 - DOUBLE UPDATE REPLACED BY SINGLE UPDATE

PROCEDURE 'UTILITY'

PURPOSE
    EXECUTE A PROGRAM ON EDITLIB USER LIBRARY 'UTILITY'

FUNCTIONAL CATEGORY: Q7

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,UTILITY,,PROG,PARAMS.

DESCRIPTION OF PARAMETERS
    PROG   - PROGRAM TO BE EXECUTED
    PARAMS - UP TO 19 PARAMETERS FOR 'PROG'

DEFAULT BEGIN STATEMENT
    NO MEANINGFUL DEFAULT VALUES

MAX FL: DEPENDS ON PROGRAM BEING EXECUTED

REMARKS
    NONE

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: EARLY 1975

DATE(S) REVISED

PROCEDURE 'VENUS'

PURPOSE
    ATTACH AND EXECUTE ONE OF THE VENUS RETRIEVAL PROGRAMS

FUNCTIONAL CATEGORY: S0

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,VENUS,,WHICH,INPUT,OUTPUT,SUBSET.

DESCRIPTION OF PARAMETERS
    WHICH   - VENUS PROGRAM DESIRED
                OMITTED - VENUS (SINGLE FILE VERSION)
                MF   - VENUS (MULTIPLE FILE VERSION)
                PL   - VENPL (PLOTTING LANGUAGE PROCESSOR)
                RP   - VENRP (REPORT GENERATOR)
    INPUT   - COMMAND INPUT FILE
                (IF TERMINAL, USER MUST 'CONNECT,INPUT')
    OUTPUT   - LISTABLE OUTPUT
                (IF TERMINAL, USER MUST 'CONNECT,OUTPUT')
    SUBSET   - OUTPUT FILE FOR THE SUBSET COMMAND

DEFAULT BEGIN STATEMENT
    BEGIN,VENUS,,,INPUT,OUTPUT,SUBSET.

MAX FL: 610000B   (MF MAY NEED MORE)

REMARKS
    FOR VENUS PROBLEMS, CONTACT:
        RAY SIMANOWITH
        DTNSRDC CODE 2731
        (301) 267-3240 (ANNAPOLIS)

ERROR MESSAGES
    FIRST PARAMETER (<WHICH>) INVALID
    MUST BE ONE OF MF, PL, RP OR OMITTED
        SELF-EXPLANATORY

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: 09/20/77

DATE(S) REVISED

PROCEDURE 'WHATLIB'

PURPOSE
    LIST LIBRARIES SPECIFIED IN LAST 'LIBRARY' COMMAND

FUNCTIONAL CATEGORY: Q0

LOCATION OF PROCEDURE
    SYSTEM PUBLIC ACCESS PROCEDURE FILE

USAGE
    BEGIN,WHATLIB,,OUTPUT.

DESCRIPTION OF PARAMETER
    OUTPUT   - LISTABLE OUTPUT
               (TO PRINT AT INTERACTIVE TERMINAL, MUST BE
               CONNECTED.)

DEFAULT BEGIN STATEMENT
    BEGIN,WHATLIB,,OUTPUT.

MAX FL: 22000B

REMARKS
    OF LIMITED USE IN BATCH.

AUTHOR
    DAVID V SOMMER - DTNSRDC CODE 1892.2

DATE WRITTEN: MID-1975

DATE(S) REVISED

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